

**Before the House Committee
on Transportation and
Infrastructure, Subcommittee
on Railroads**

Subcommittee on Railroads

Statement of
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Vice President
Mercer Management Consulting, Inc.

April 11, 2002

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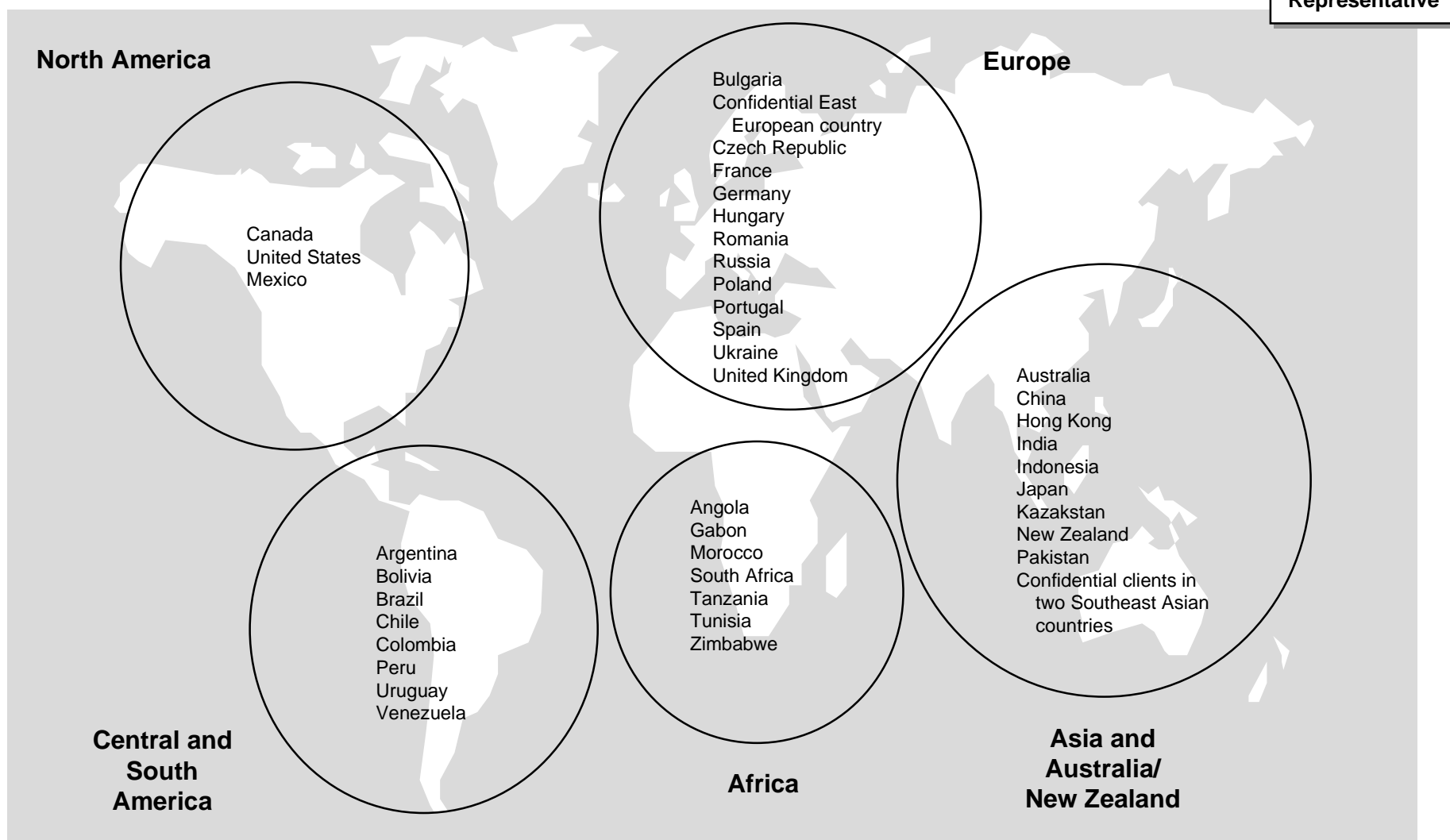
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Mercer based its comments and assumptions for today's hearing on benchmarks and analysis it has conducted in examining the role and extent of private sector participation in transportation and other asset-intensive industries railways through out the world.

International Benchmarks
<ul style="list-style-type: none">• Consideration of effects of privatization on international rail systems:<ul style="list-style-type: none">– Operating cost savings– Traffic growth– Productivity increases– Sources and timing of privatization effects• Overview of non-rail public asset privatizations• Learnings from benchmarks of comparable rail systems for:<ul style="list-style-type: none">– Operating cost per unit– Capital investments per unit– Productivity growth– Factors impacting growth of operating costs

Mercer's restructuring expertise

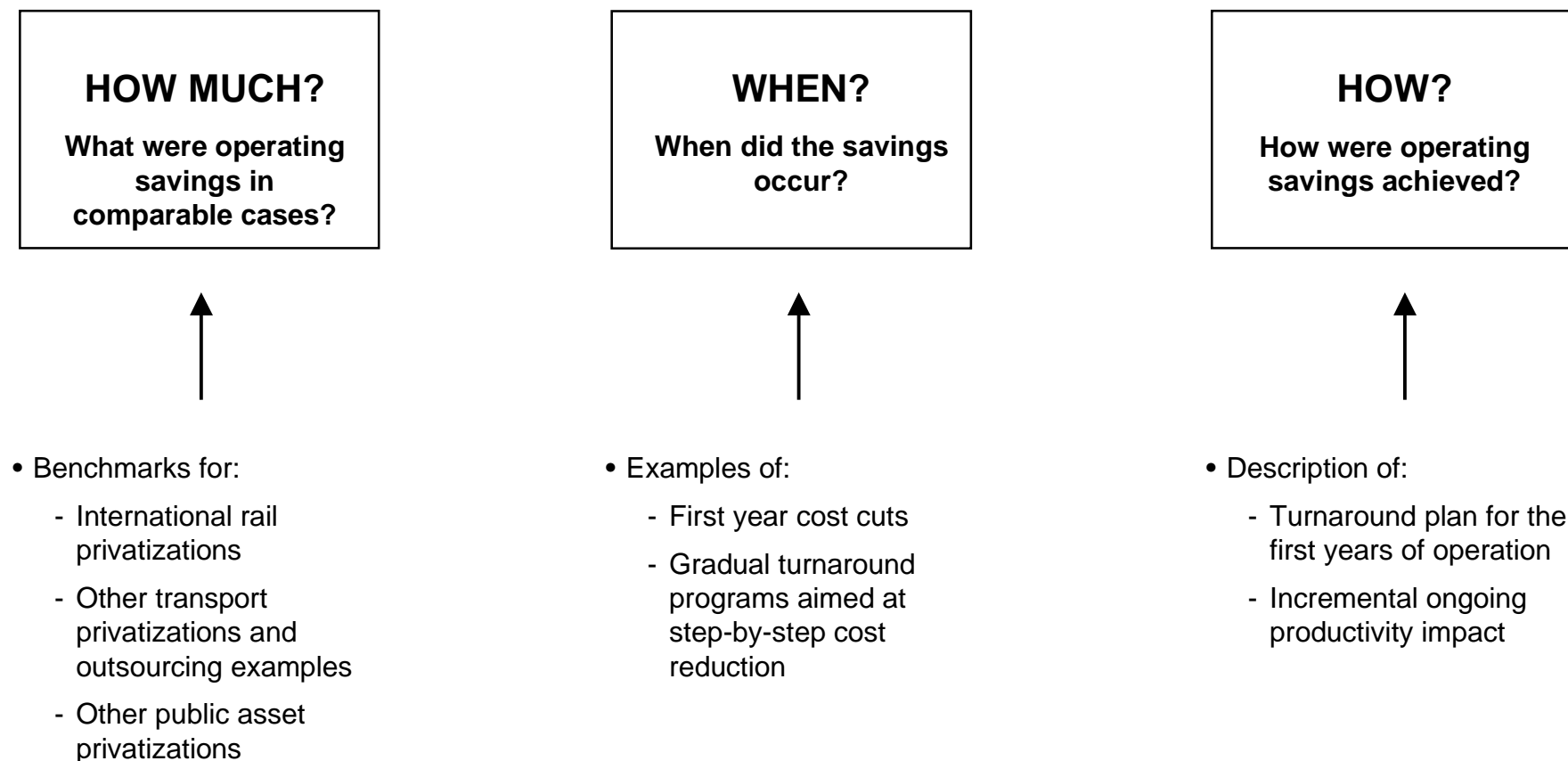
Mercer has worked with governments and operating companies around the world operating in all types of market environments, from heavily regulated and state-controlled through various stages of deregulation to unrestricted market competition.



Mercer's experience with private involvement in international rail systems supports the following findings:

- International examples of privatization of rail and other low-tech assets demonstrate operating cost savings ranging from 3 percent to 50 percent in the first three years of private operation.
- US examples of outsourcing to private transportation operators show annual operating cost savings in excess of 30 percent.
- Recent Mercer analysis of a European passenger rail system revealed potential cost savings from privatization of infrastructure operations of 9-11 percent. Because this system is newer and more efficient than Amtrak, it is likely that Amtrak could achieve even greater savings from a private-sector infrastructure operator.

In evaluating post-privatization operating cost savings, Mercer typically considers three major questions.



Privatization efficiency savings: Achievable cost savings

Achievable cost savings from rail privatization depend on the characteristics of the assets involved.

Cost Savings Potential

Low

High



**Potential to
Increase Current
Labor Efficiency**

- High level of outsourcing
- High labor productivity compared to industry benchmarks

- Low labor productivity
- Some government constraints on labor reductions

- Low level of outsourcing
- Low labor productivity
- No government constraints on labor reductions

Age of Asset

- New asset (0-15 years)

- Medium age of asset (15-30 years old)

- Asset in steady state (over 30 years old)

**Portion of Asset
Privatized**

- Small part of operating unit

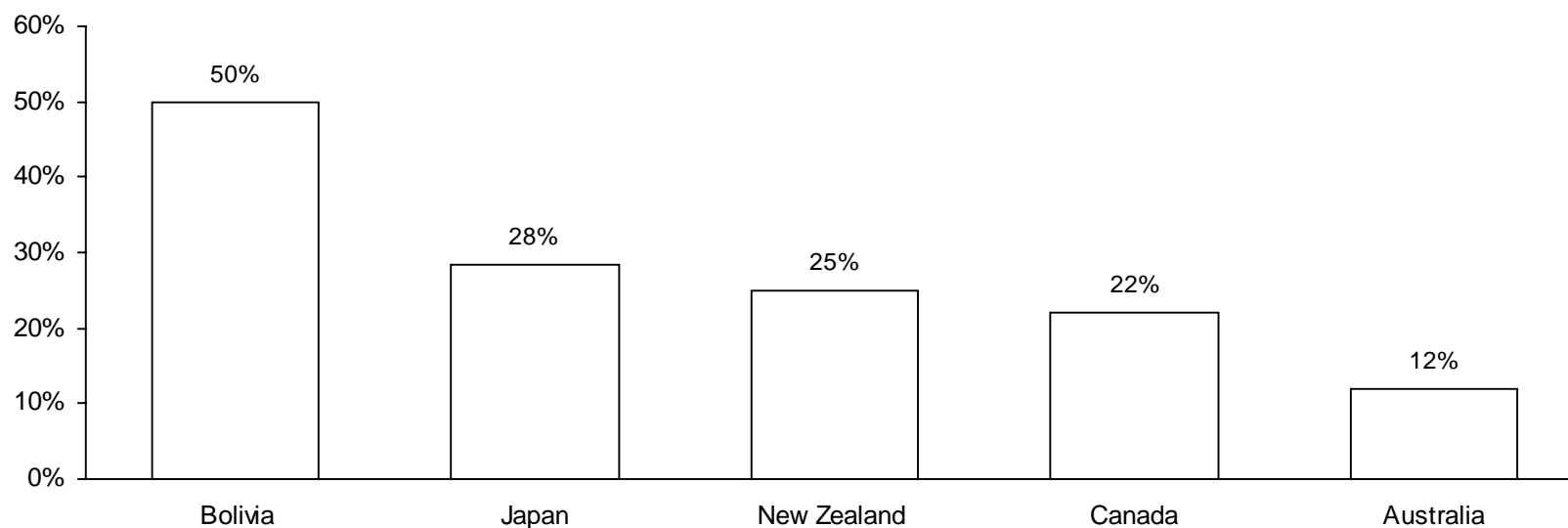
- Stand-alone operating unit (maintenance facilities; all infrastructure)

- Entire asset

Operating cost benchmarks: Efficiency savings from privatization

Rail companies have achieved significant savings in operating expenses as a result of privatization.

**International Rail Privatizations:
Calculated Opex Savings¹ of First Three Years of Private Operation**
(based on per-unit data)



Name of Railroad:	FCA	Japan Rail	TranzRail	Canadian National	Australian Southern
Year of Privatization:	1996	1987	1993	1995	1997
Mode ² :	F/P	F/P	F/P	F	F

Notes: ¹Efficiency savings are calculated as a decrease in operating costs in constant currency per unit of output (traffic units: passenger-miles plus ton-miles).

²F: Freight; P: Passenger.

Source: World Bank data; Industry reports; Mercer analysis.

Operating cost benchmarks: Efficiency savings from outsourcing

Railroads and governments across the globe have taken advantage of the efficiencies gained from outsourcing.

“Docklands Light Railways Ltd.’s **public subsidy will be reduced by 24%** during the franchise period (1997-2004).”



“Public Sector Operator, Statens Jarnvagar, in three years (1988-1991) **turned a \$48M loss into a \$37M profit.**”



“Average **operating cost** per passenger km **decreased by 37%** from 1985 (pre-privatization) to 1995 (post privatization).”



“From 1992-1995, Stockholm Transit achieved **7.3% savings annually** by contracting out 59% of their operations¹.”



Source: JR-West -Changing Trains “Railway Reform & the Role of Competition”, 1999; Docklands - PR Newswire; SJ-ATCO Rail Privatization Oct 1992; SL- 5th international conference on competition and ownership in passenger transport, Leeds May 1997.

¹ Operations include both rail and bus, both of which were outsourced 59 percent respectively.

Operating cost benchmarks: Efficiency savings from outsourcing

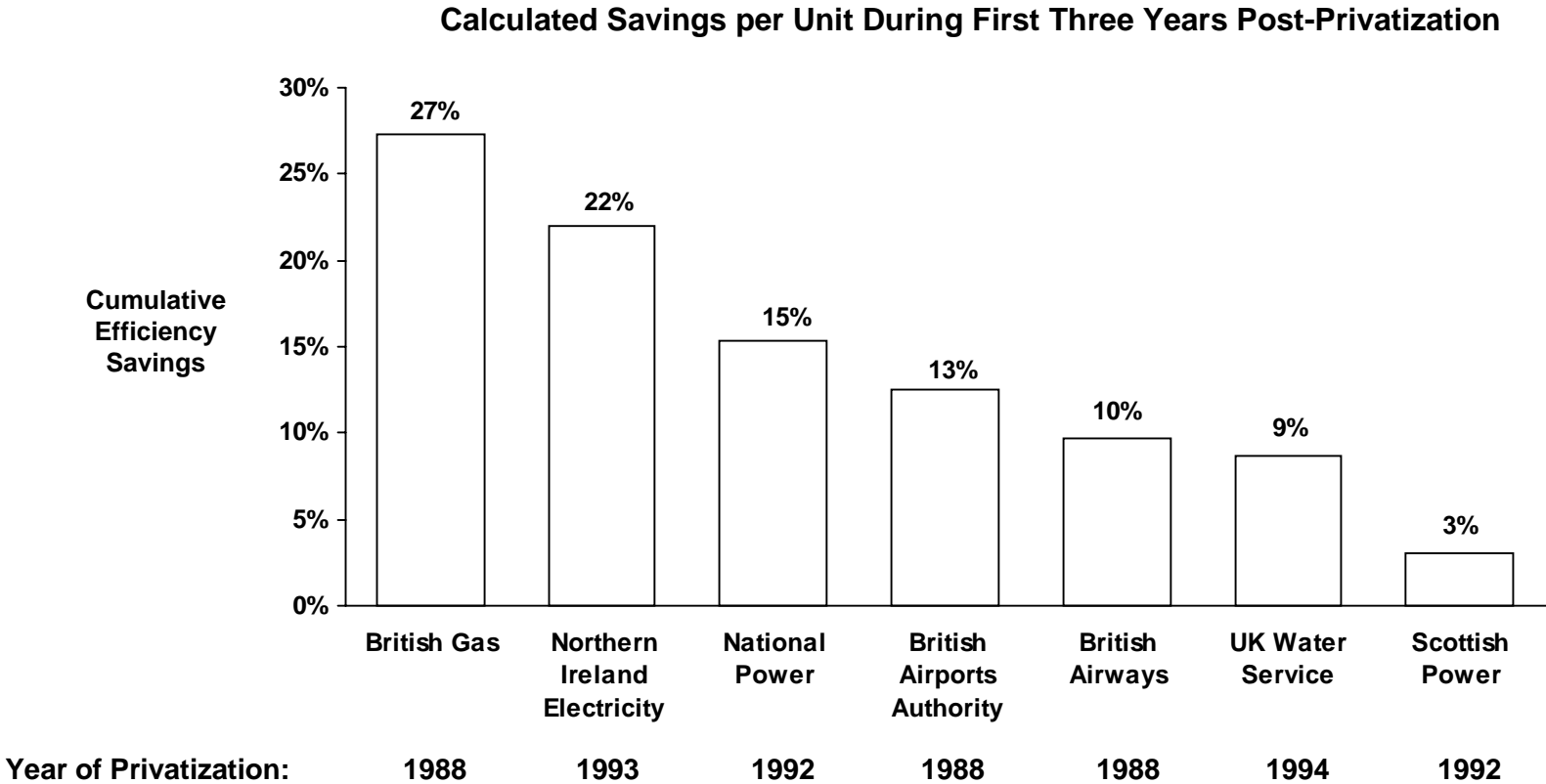
Bus companies have been able to achieve significant annual efficiency savings by outsourcing some or all of their operations and maintenance to outside contractors.

	Years of contract	Outsourced work as % of total maintenance cost	Annual efficiency savings
Las Vegas, NV	1993-1994	100%	33%
Indianapolis, IN	1994-1996	70%	14%
Auckland, New Zealand	1990-1996	100%	8%
Copenhagen, Denmark	1989-1996	56%	4%
Denver, CO	1988-1995	25%	3%

Source: International Conference on Competition and Ownership in Passenger Transport. Leeds May 1997.

Operating cost benchmarks: Efficiency savings from privatization

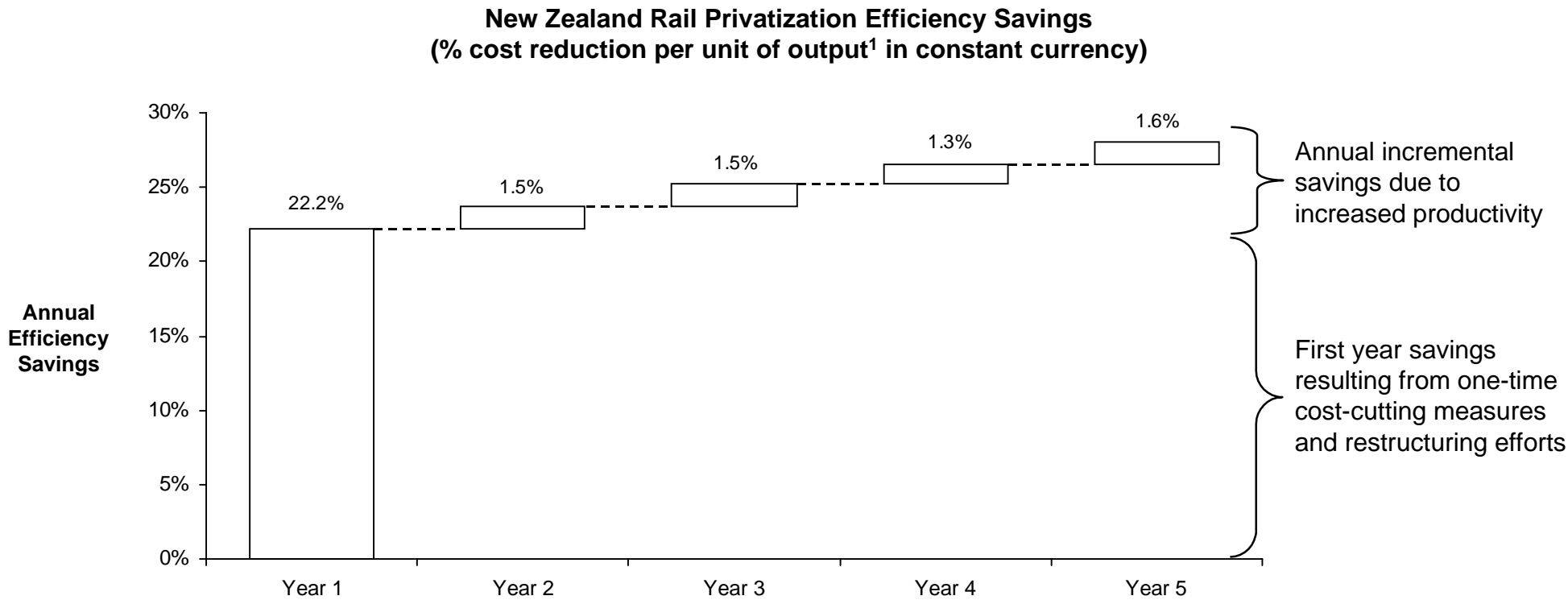
UK privatizations of public assets have demonstrated high efficiency savings during the first three years of private operation.



Source: Review of Railtrack Efficiency – Report for the Office of the Rail Regulator by Europe Economics, 1999.
Note: Savings calculated based on real unit operating expenditure (RUOE). Unit measures are calculated by dividing operating expenditure by the most appropriate output measure available.

Operating cost benchmarks: Timing of efficiency savings

Timing of efficiency savings is driven by management decisions of the private operator and differs greatly among the cases examined.

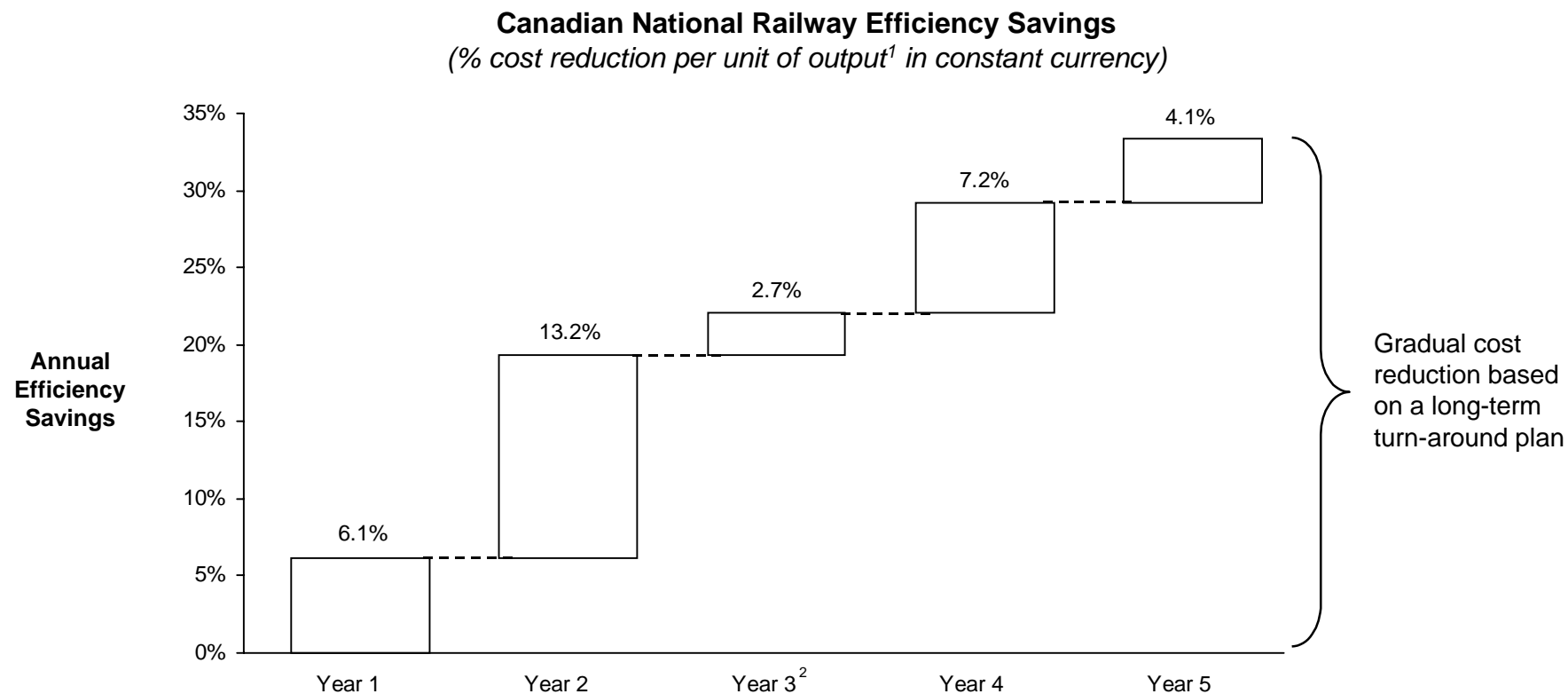


Name of System: **New Zealand Rail (TranzRail)**
Year of Privatization: **1993**
Mode: **Freight and Passenger**

Source: World Bank data; analyst reports; Mercer analysis.
¹Unit of output used is traffic units (annual passenger-miles plus annual ton-miles).

Operating cost benchmarks: Timing of efficiency savings

Canadian National Railway achieved cumulative operating savings of 33 percent on a unit cost basis through a gradual turnaround program over the first five years after privatization.



Name of System: **Canadian National Railway Company**

Year of Privatization: **1995**

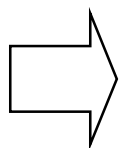
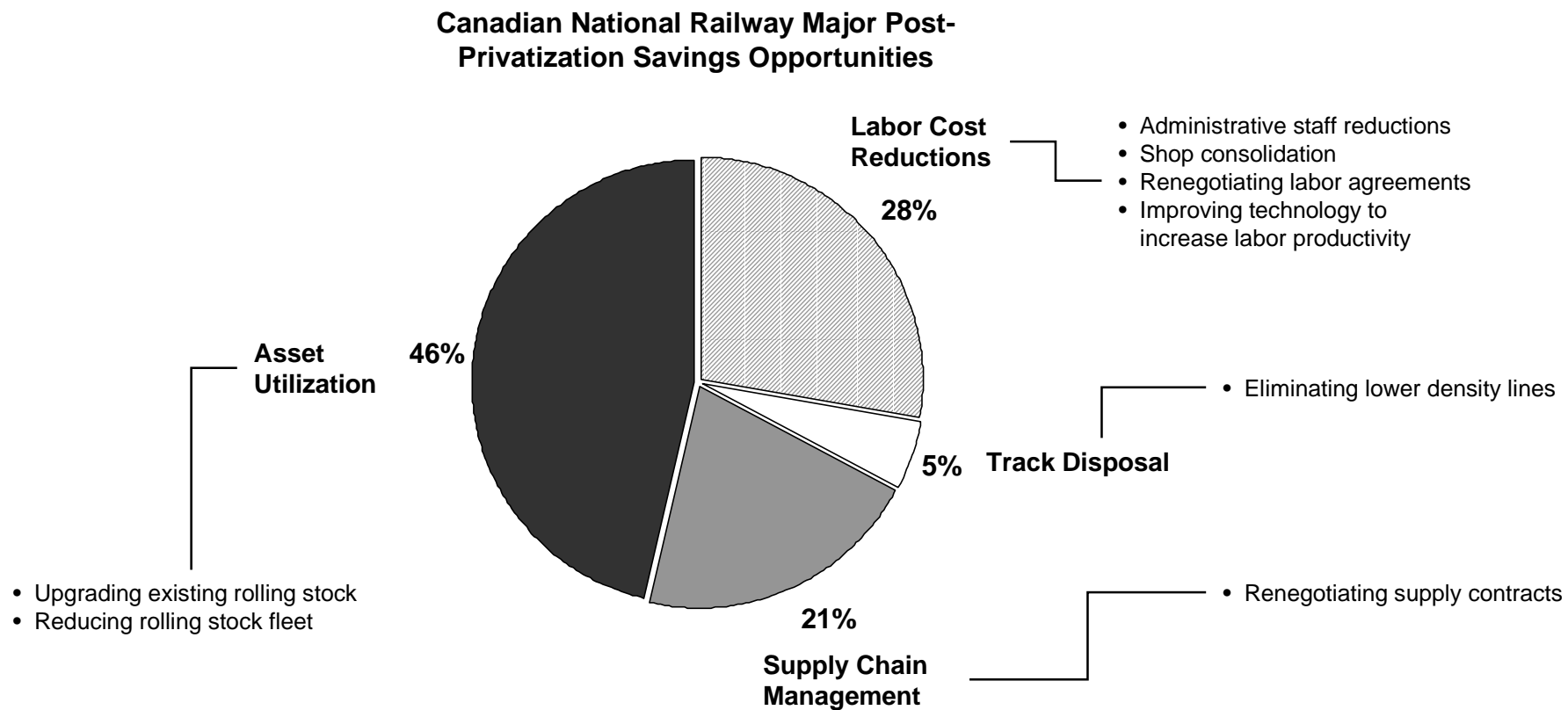
Mode: **Freight**

Source: World Bank data; analyst reports; Mercer analysis.

¹Unit of output used is traffic units (annual passenger-miles plus annual ton-miles).

²Year 3 data (1998) does not include one-time special charge for restructuring costs booked for that year.

Canadian National Railway's turnaround plan after privatization in 1995 was based on four major saving opportunities.



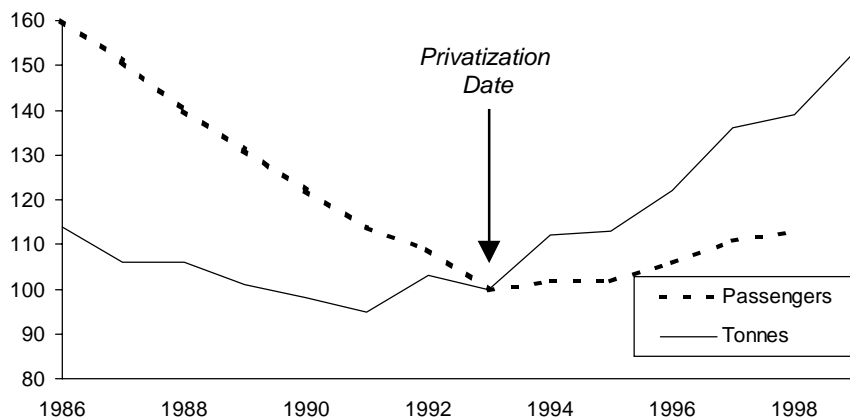
- **Savings of \$ 208 million were achieved during the first two years after privatization.**
- **Savings of over 33 percent were achieved on a per-unit cost basis (operating costs per ton-mile) after five years of private operation.**

Source: Salomon Brothers Report, 1996; CN annual reports.

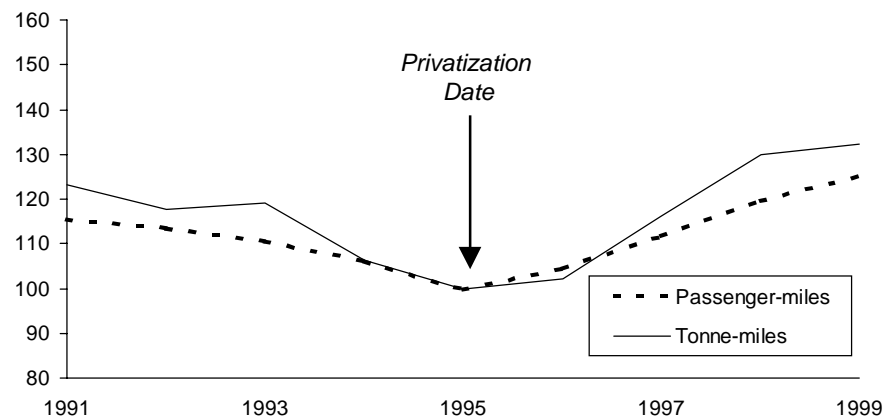
Growth of traffic after privatization

International privatization examples show a strong trend of increasing traffic over a line after privatization. This growth can be attributed to the superior marketing efforts of the private operators and better line maintenance.

Comparative Analysis of Traffic Data for New Zealand Rail (TranzRail)
(1993=100)



Comparative Analysis of Traffic Data for British Rail (Railtrack)
(1995=100)



	Before Privatization CAGR 1986-1993	After Privatization CAGR 1993-1999	Total Growth 1993- 1999
Passengers	-6.6%	2.5%	13.1%
Freight Tonnes	-1.0%	7.3%	74.0%

	Before Privatization CAGR 1991-1995	After Privatization CAGR 1995-1999	Total Growth 1995- 1999
Passenger-km	-3.6%	5.8%	25.3%
Tonne-km	-5.1%	7.2%	32.3%

Source: World Bank; analyst reports; annual reports.

Representative rail industry service providers

In Mercer's view, a wide range of private-sector companies today possess the capability to provide outsourced maintenance, infrastructure services, and operations for intercity passenger services.

Representative List

Alstom - Rolling stock and infrastructure design, build, maintenance and operation

Amec - UK rail infrastructure maintenance specialist

Amey Railways - Planned management, maintenance, renewal and repair of railway infrastructure

Angel - UK Rosco (rolling stock operating lessor); also operates internationally

Arriva - UK train and bus operator; concessions in UK, Netherlands, Denmark, Portugal

A-Train AB - Consortium formed to finance, build and operate Stockholm airport link

Balfour Beatty Rail - Design, production, supply and maintenance of railway infrastructure

Bechtel - Project management, engineering consultancy

Bombardier/ADtranz - Rolling stock: manufacture, operations and maintenance; Rail infrastructure: operations, signalling, systems, engineering

Brown & Root - Infrastructure design, construction and operations

Connex - French train and bus operator; concessions in UK, Germany, Sweden, Australia

Eurotunnel - Owns, operates and maintains the Channel Tunnel and its railway infrastructure

First Engineering - Railway infrastructure maintenance and repair

Fluor Daniel - Specializes in infrastructure construction and maintenance

First Group - UK train and bus operator; concessions in UK, Netherlands; US school bus operator

GT Railway Maintenance - Maintenance, repair and renewal of railway infrastructure

Herzog - Focuses on commuter rail operations

Hochtief - German infrastructure construction and maintenance company; also involved in airport management

HSBC Leasing - UK Rosco (rolling stock operating lessor)

Jarvis Rail - Railway facility maintenance

Kansas City Southern Industries - Multi-railroad holding company

Max Bögl Company Group - Development, production and installation of railway infrastructure

National Express - UK train and bus operator; concessions in UK, Australia, part-operator of Eurostar high-speed service; US school bus operator

NILES-SIMMONS - Development and production for infrastructure maintenance

Porterbrook - UK Rosco (rolling stock operating lessor); also involved in Australia, Denmark

Development Corp. - Multi-railroad holding company

Serco - Infrastructure and communications and control systems

Sersa - Swiss rail infrastructure design, upgrade and maintenance specialist

Siemens AG - Vertically integrated projects including construction portion

SNCF - Transport operator and infrastructure management, maintenance, & renewal

Stagecoach/Virgin - UK train and bus operator; concessions in UK, Sweden, Portugal, NZ, Hong Kong; owns Coach USA

Sea Containers/GNER - train and ferry operator; operates high-speed concession in UK and tourist train services (Orient Express, Australia, Peru)

Transdev - French bus and light rail operator; concessions in Australia, UK, Poland

Transfield - Infrastructure construction and maintenance

Union Pacific - US Class I Railroad

VIA GTi - French train and bus operator; concessions in France, UK, Germany, Spain

Washington Group - Infrastructure construction and maintenance

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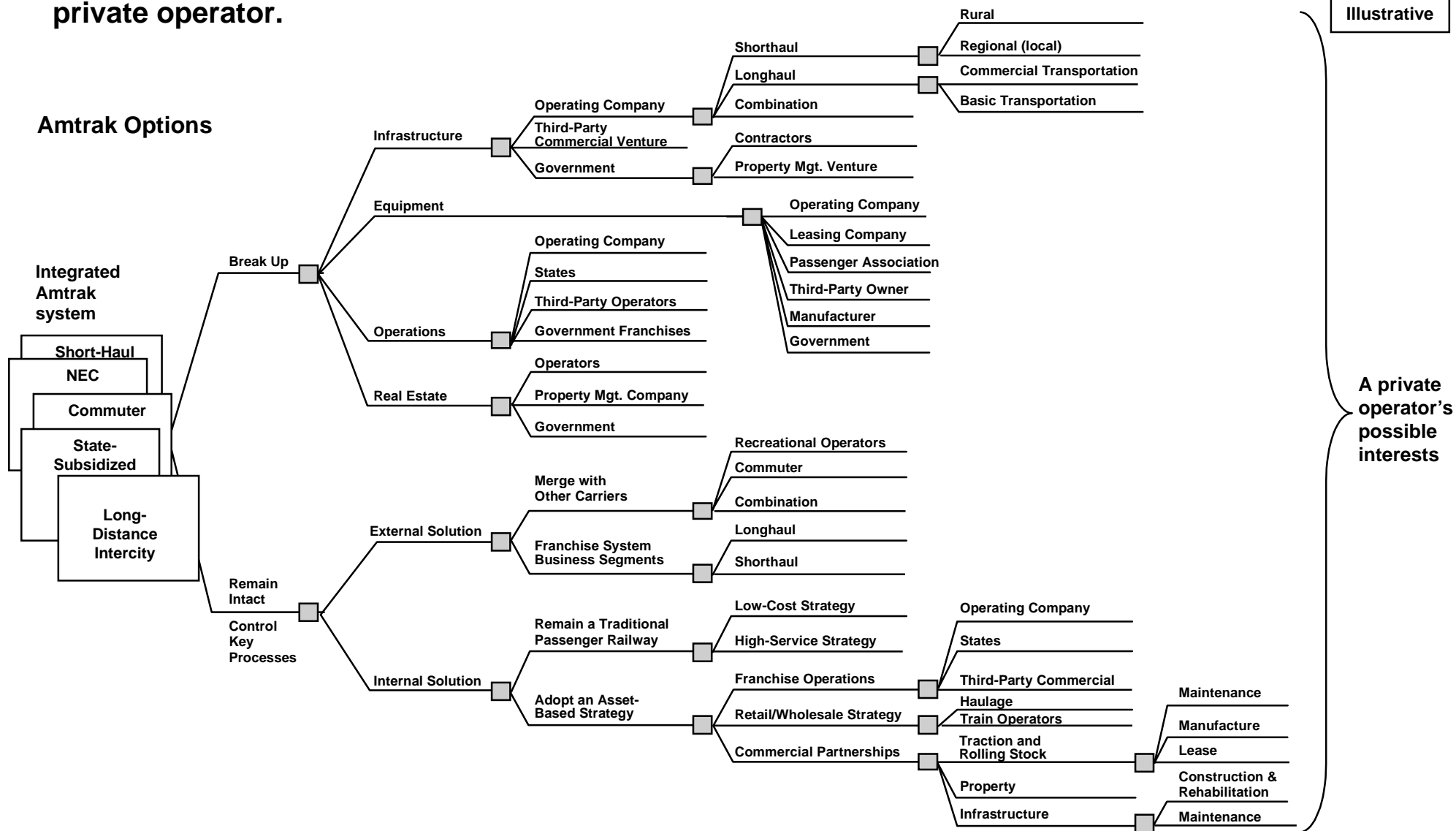
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Approaches to developing public/private transaction opportunities

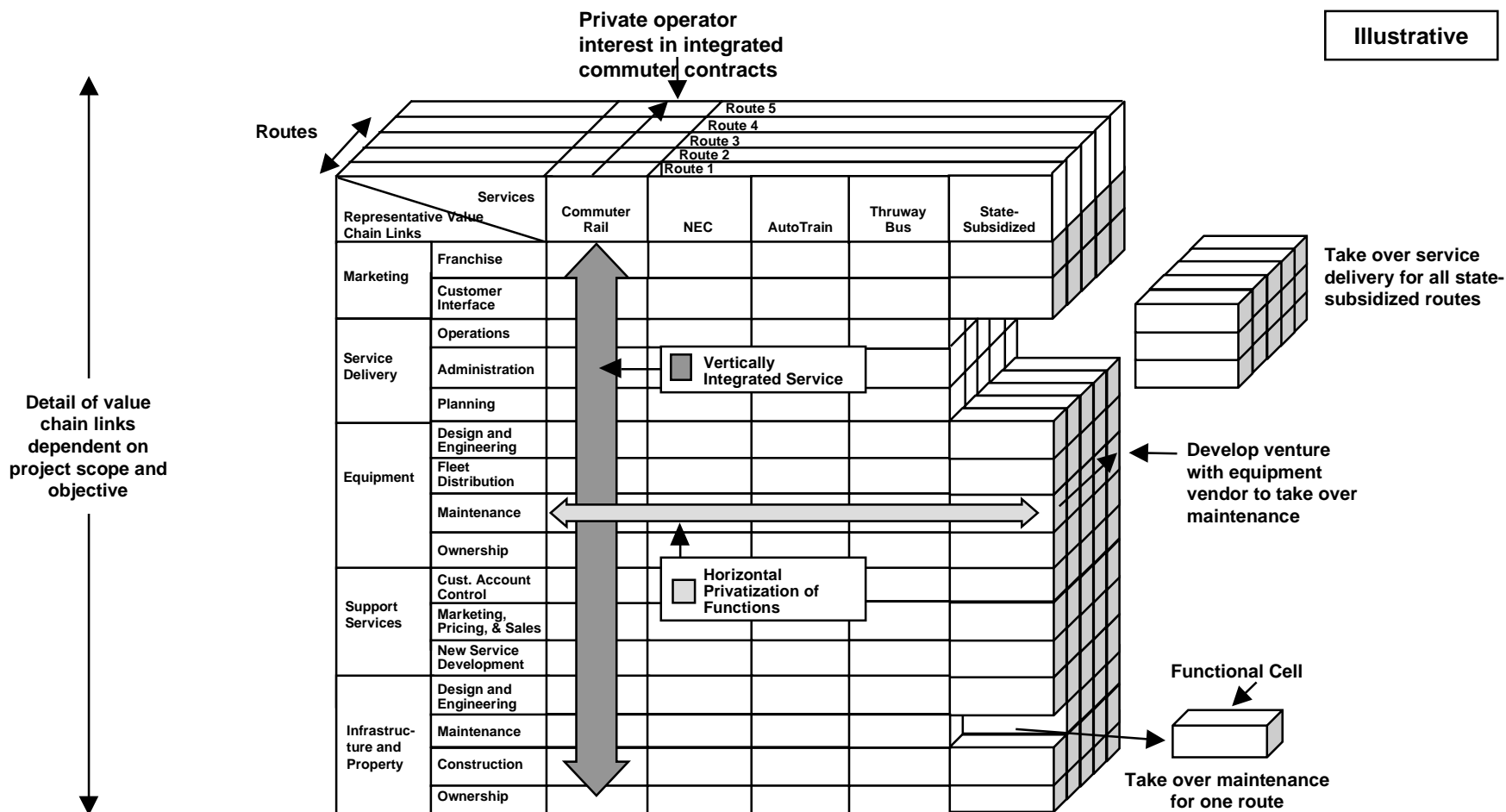
Amtrak's assets and services offer a full range of bundled and unbundled opportunities for a private operator.

Amtrak Options



Approaches to developing opportunities: Unbundling

Unbundling Amtrak's service offerings could also help define operating and asset transactions where a private operator could partner with Amtrak as part of a comprehensive restructuring program.



➔ A private operator could operate some services as a franchise of Amtrak; or as a supplier of outsourced services.

Approaches to developing opportunities: Unbundling

Cell-by-cell value chain analysis would be needed to identify areas where a private operator could introduce new levels of performance improvement.

Summarized Rail Service Value Chain

Illustrative

Representative value chain links		Business	Portfolio of services to be privatized	Amtrak	Component unbundled/outsourced
Operations	Station/terminal		●	○	Y
	Train crew		●	○	Y
	Scheduling		●	○	Y
Traction and rolling stock	Design and engineering		●	○	Y
	Fleet distribution		●	○	Y
	Maintenance		●	○	Y
	Ownership		●	○	Y
Support services	Customer account control		●	○	Y
	Marketing, pricing, and sales		●	○	Y
	New service development		●	○	Y
Infrastructure and property	Design and engineering		○	●	N
	Maintenance		●	○	Y
	Construction		○	●	N
	Ownership		○	●	N

Key:

● More Efficient

○ Less Efficient

Y Yes

N No



Opportunities for private operators

Approaches to developing opportunities: Entry strategies

A private operator could have several potential options for entering the U.S. market. For example:

Segments Point of Entry	Long Distance	NEC	Shorthaul	State Subsidized 403(b)	Commuter	Other
<i>Become part of an Amtrak solution</i>	X	X	X	X	X	X
<i>Work with States to replace Amtrak on State-supported services</i>			X	X		X
<i>Work with U.S. DOT/Congress to operate the core network</i>	X	X				
<i>Approach private parties (freight railroads, suppliers, etc.)</i>	X	X	X	X	X	X
<i>Approach selected transit authorities</i>					X	X

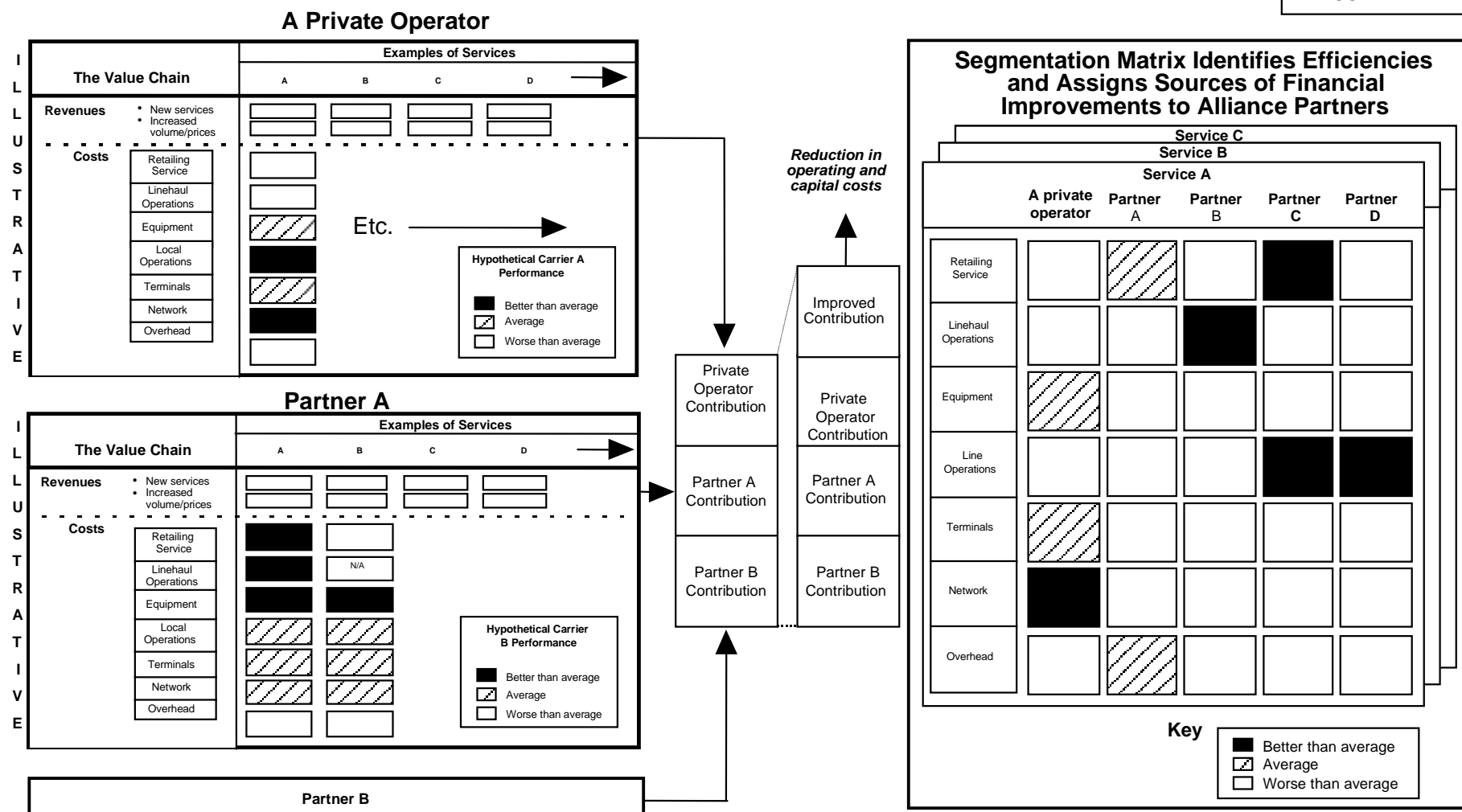
A variety of strategic partners could be available if partnering is shown to be beneficial to the interested private operator.

- **Independent contractors** have already established market presence (e.g., Herzog for Miami Tri-Rail service and Dallas Area Rapid Transit [DART]; Bombardier for equipment).
- Several of the largest **Class I freight railroads** have passenger subsidiaries currently operating commuter services (e.g., BNSF and UP for Chicago METRA service).
- **Regional railroads** (e.g., Anacostia & Pacific), through their entrepreneurial and innovative approaches, have pursued commuter service contracts in competition with Amtrak.
- Some **commuter authorities** that operate their own passenger services today could be open to expanding to other municipal areas.
- **Airlines** have considered obtaining rail routes or have entered into partnering programs (e.g., frequent flyer miles for rail travel) as competitive strategies.
 - NEC and linked commuter lines represent a significant customer base.
- Other companies (e.g., electric utilities) are interested in acquiring electric power distribution rights on the NEC.

Approaches to developing opportunities: Strategic partnerships

Alliances can be used to establish the set of relationships that maximizes long-term value by allocating functions to the most efficient provider or partner.

ILLUSTRATIVE



Established international private operators could bring several key strengths to the U.S. passenger rail market.

- Established, proven, successful relationships with public entities
- Track record of excellence and service in several different transportation modes
- Established, independent, third-party operator
- Solid safety record
- Existing presence in North America in other sectors (e.g., utilities, European operators such as Stagecoach)
- Highly regarded staff with appropriate training programs and experienced management
- Scale and in some cases 100-year histories of operating passenger services for national railway operations (e.g., CGEA, Connex)

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Possible paths forward

Since multiple decision makers and stakeholders would be involved in any private operator entry strategy for different services, attracting qualified world class interest will require a clear and transparent contracting and transaction process. For example:

Segment		Long Distance	NEC	Shorthaul	State Subsidized	Commuter	Other
Stakeholder							
<i>Amtrak Board</i>							
<i>State Departments of Transportation</i>							
<i>State elected officials</i>							
<i>U.S. DOT</i>							
<i>U.S. House Committee on Transportation and Infrastructure</i>							
<i>U.S. Senate Committee on Commerce</i>							
<i>Local transit authorities</i>							
<i>Municipal officials</i>							
<i>Private sector</i>							

Illustrative

Key:

High focus



Limited or no influence



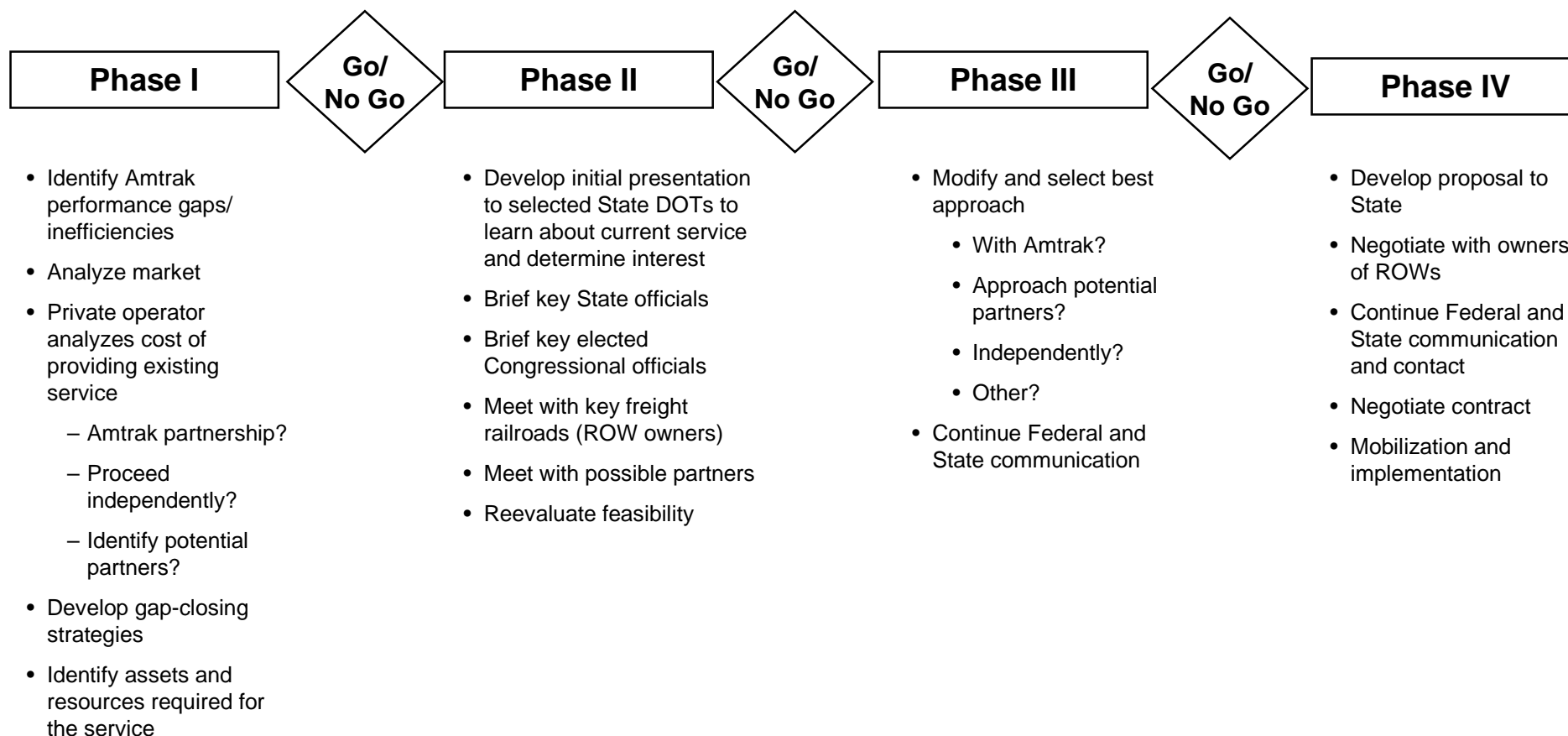
The relative interest of each decision maker would have to be integrated into one single point of private operator contact.

Possible paths forward

A comprehensive private operator strategy could be developed that incorporates communication with federal, state and local officials, economic analysis, and proactive actions for change.

Illustrative

Example of Potential Process for Replacing Amtrak as an Operator of State-Subsidized Service

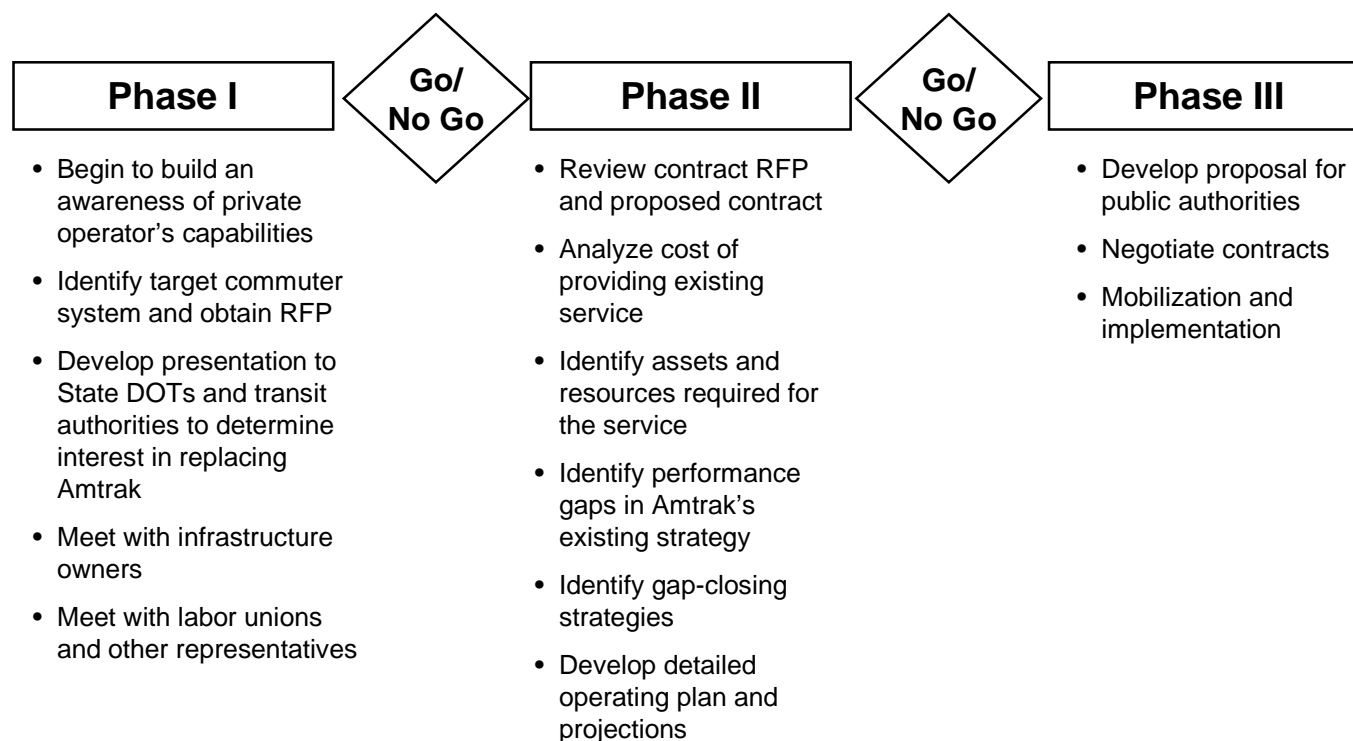


Possible paths forward

Positioning a private operator to replace Amtrak on any commuter contract will likely follow an awareness-building stage, and then participation in a transparent competitive bidding process.

Illustrative

Example of Potential Process for Response to Public Bid for Contract Commuter Service



Possible next steps to establish private operator interest

1. Determine private operator's level of interest and initial areas of focus
 - Screening criteria for transactions
 - Timeline for transactions
2. Profile opportunities supported by high-level analysis
3. Screen opportunities and prioritize most attractive options
4. Conduct detailed analysis of most attractive options
5. Develop transaction implementation plan
6. Mobilize and develop integration plan

Mercer suggests a three-phase process that could begin to attract private operator interest in a North American entry.

Phase I: Evaluation of private operator interest to operate selected Amtrak Services

- Establish screening criteria and timeline for transactions.
- A private operator's options to operate Amtrak services could cover a broad spectrum of potential relationships, ranging from a fairly straightforward franchising relationship under which Amtrak would retain some control (and risk) for long-term operation, to a displacement under which the private operator would assume a much higher degree of control (and risk) for some or all of Amtrak operations.
- Also along the spectrum lie more complex contractual and alliance arrangements including unbundling of different groups of Amtrak assets and services over which a private operator could selectively assume control.
- In this phase, US policy makers would apply the market structure assessment techniques to lay out the full range of transaction options for the private operator. It would be necessary to quantify the financial impacts of the options to identify the qualitative (e.g., strategic) benefits for each party. It would be important to identify the key constituencies for any transaction (including potential competitors/partners) and make a preliminary assessment of what their major interests – pro or con – are likely to be, and apply the private operator's screening criteria.
- At the end of the first phase, interested private operators would then have a clear indication of whether any profitable commercial options exist and what the likely form for a transaction for those options would be. If a sustainable commercial structure for one or more transactions cannot be identified for private operators, or there are legal or structural impediments that seem insurmountable, then further efforts could be halted.

Phase II: Development of actual preliminary private interests

- Party representing Amtrak's interests would prepare detailed transaction structures for any transactions that the Phase I work indicates would provide superior standalone or synergistic benefits.
- For example, a "wet lease" type of approach could likely be proposed and negotiated directly with Amtrak as a franchiser, whereas the acquisition of total control of the operation would likely need to be negotiated with the DOT. For this phase, the private operator team would likely be joined by legal and contracting experts.

Phase III: Implementation and execution of public/private venture

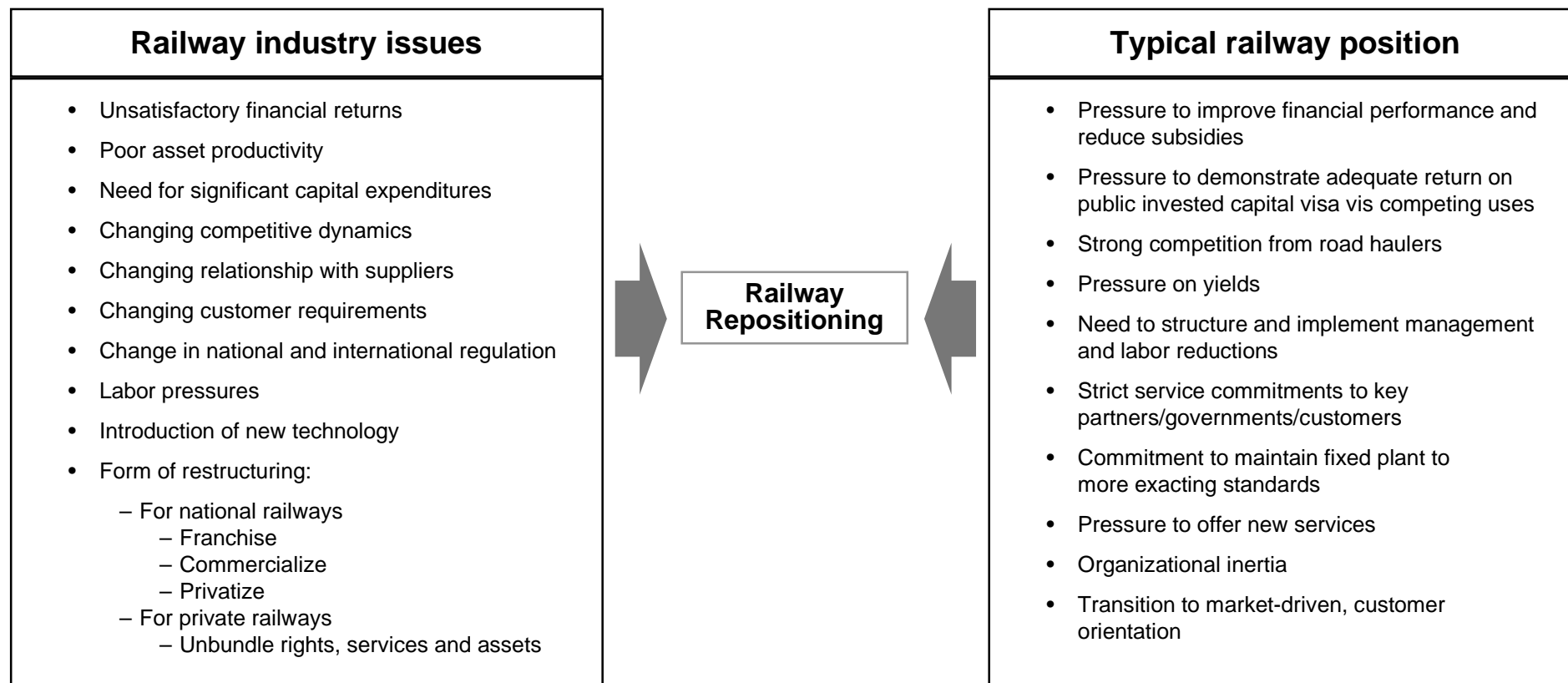
- The transition following a successful transaction is the critical period for ensuring that the anticipated value is fully captured. The private operator would employ its in-depth knowledge of passenger rail operations and services, in conjunction with its post-merger planning expertise, to assist with the transfer of Amtrak services and the start-up of operations.

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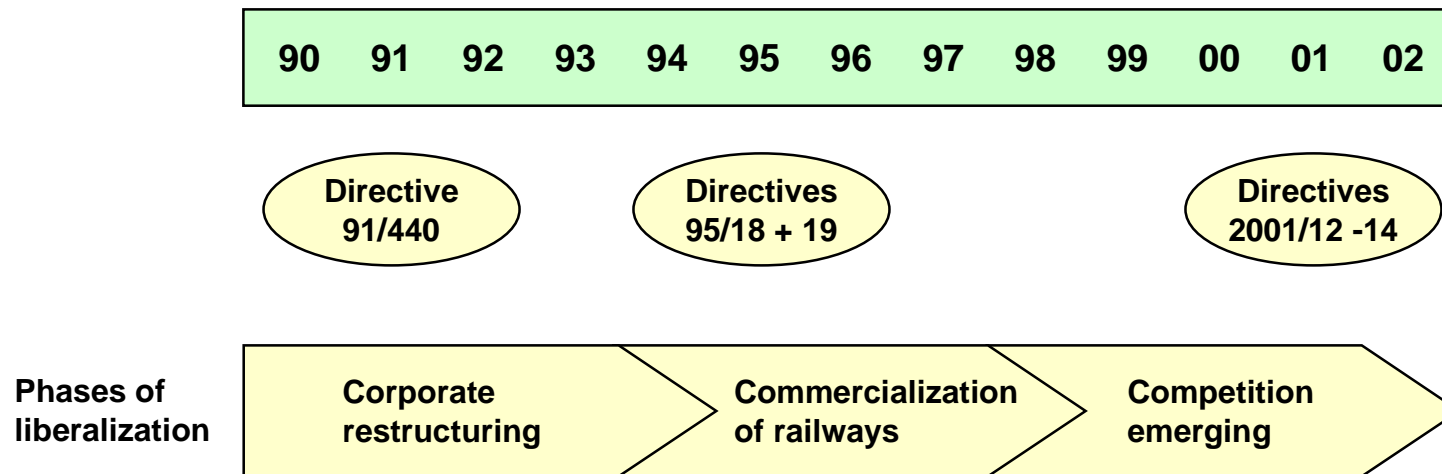
The changing rail environment has produced a large number of private operators

Both private and state-owned railways worldwide face a changing business environment. The drivers of change and railway responses have created a private operator industry.



European Railways: Structural change

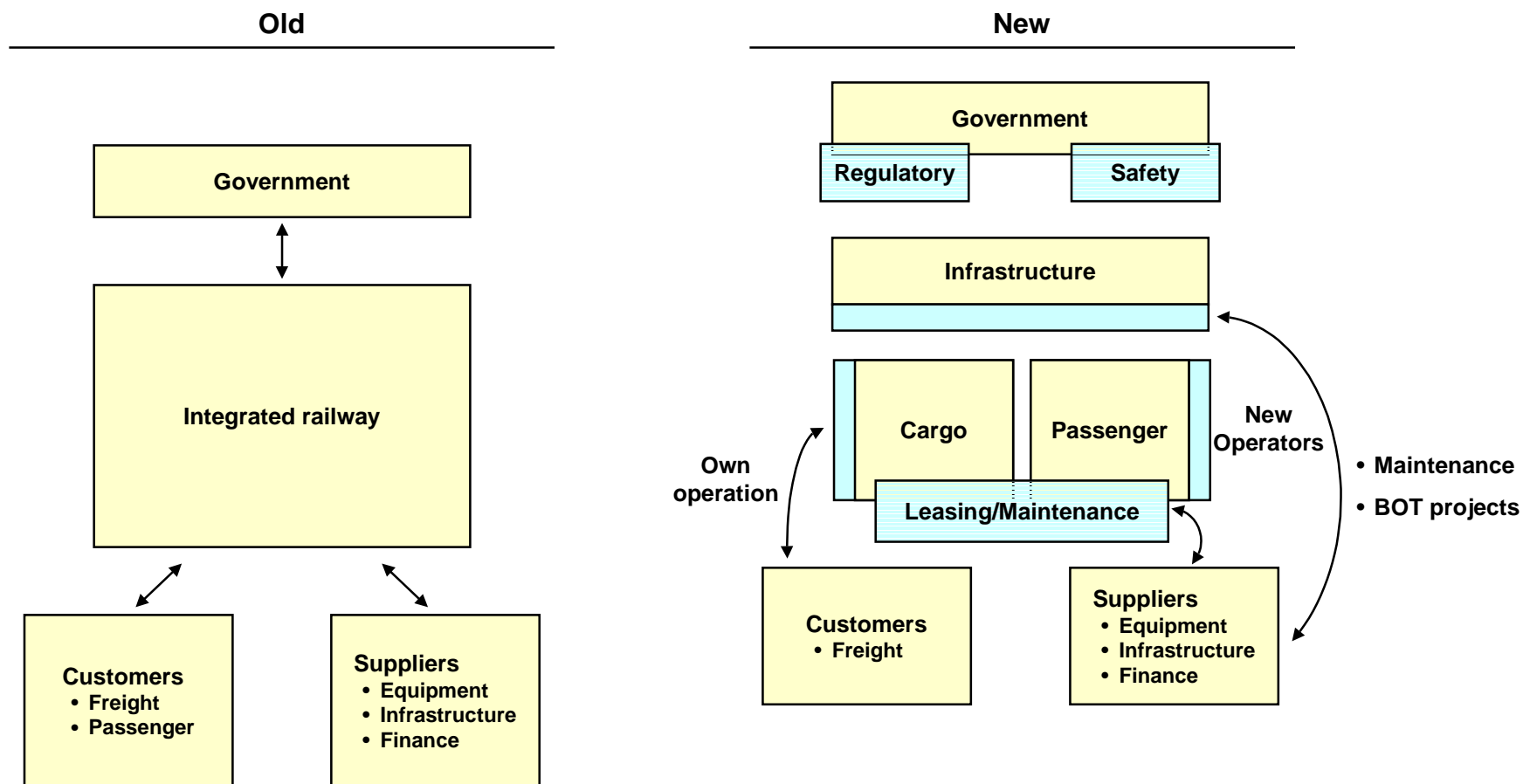
A decade of liberalization in Europe has produced an environment where restructuring has supported the growth of new operators.



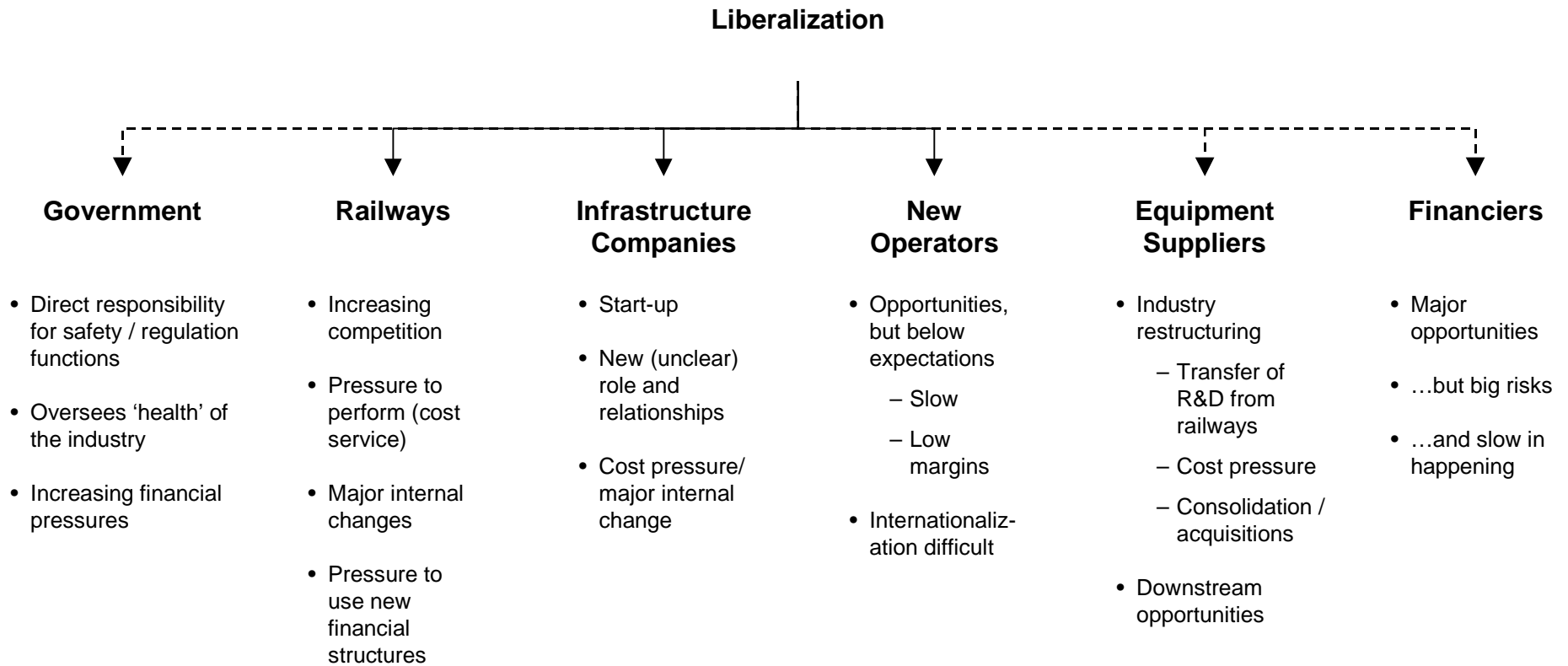
- ➡ • **Liberalization has proceeded:**
 - Relatively fast by historical standards
 - But slow compared to other industries (e.g., telecoms, electricity)
- ➡ • **Greatest impact has been on incumbent railways and suppliers**
 - Restructuring/commercialization by incumbent railways
 - Consolidation in supply industry
 - Growing innovation in financing

European Railways: Structural change

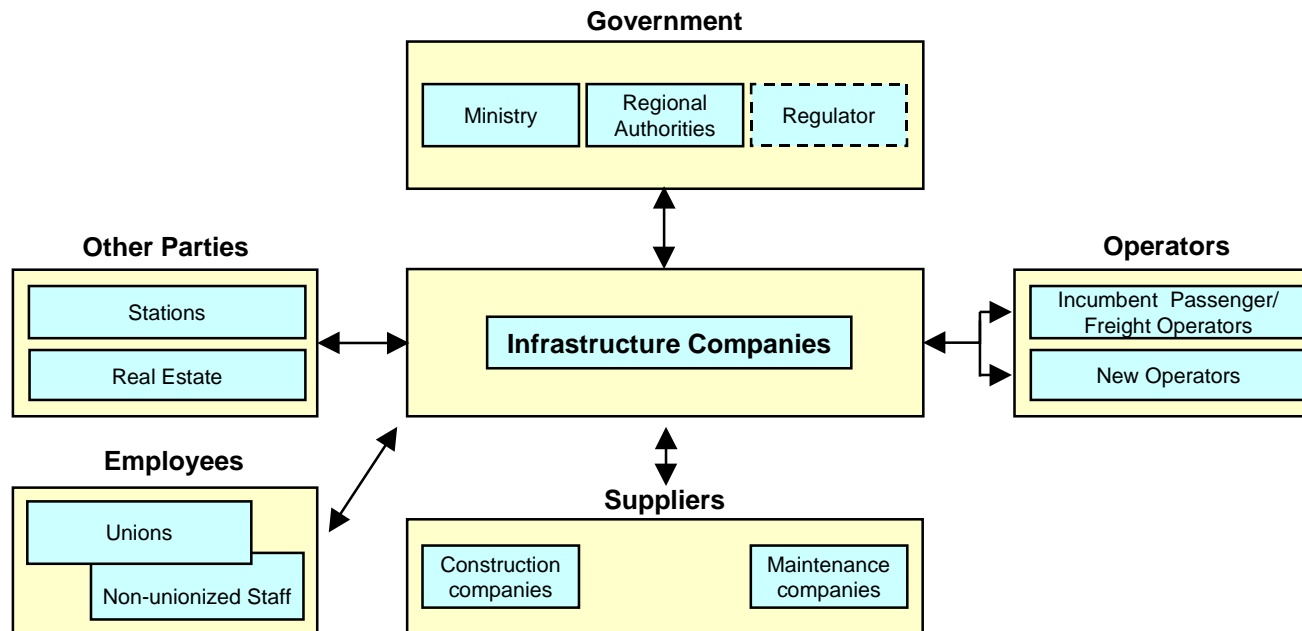
A major feature of liberalization has been the unbundling of the integrated railway. Unbundling in turn has led to new operators.



European Liberalization has created new opportunities for all the players in the industry.



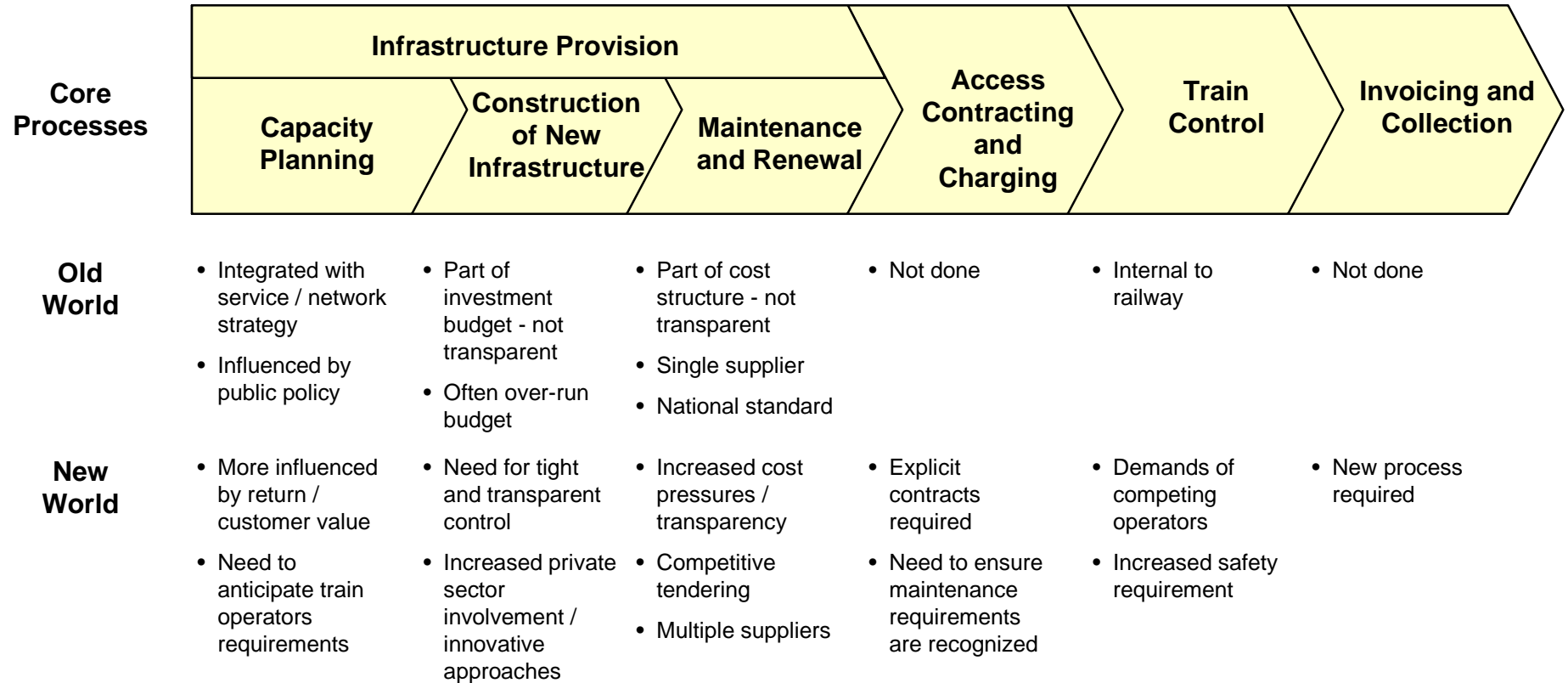
Public and private infrastructure companies have a new set of relationships to manage.



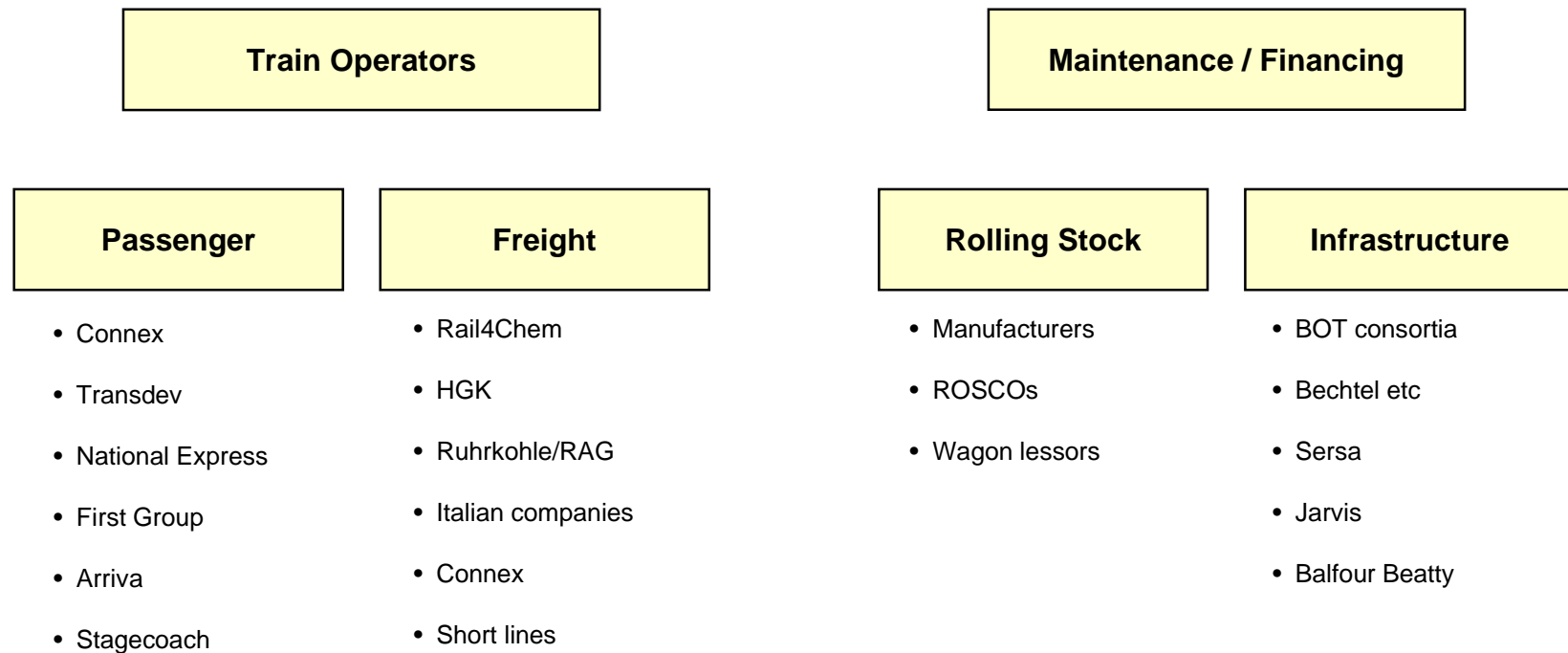
- Key priorities:
 - Set up new structure / relationships
 - Improve control over:
 - New projects
 - Maintenance and renewal
 - Improve performance monitoring
 - Meet government / public requirements for investment

European Railways: Impact of structural change on infrastructure companies

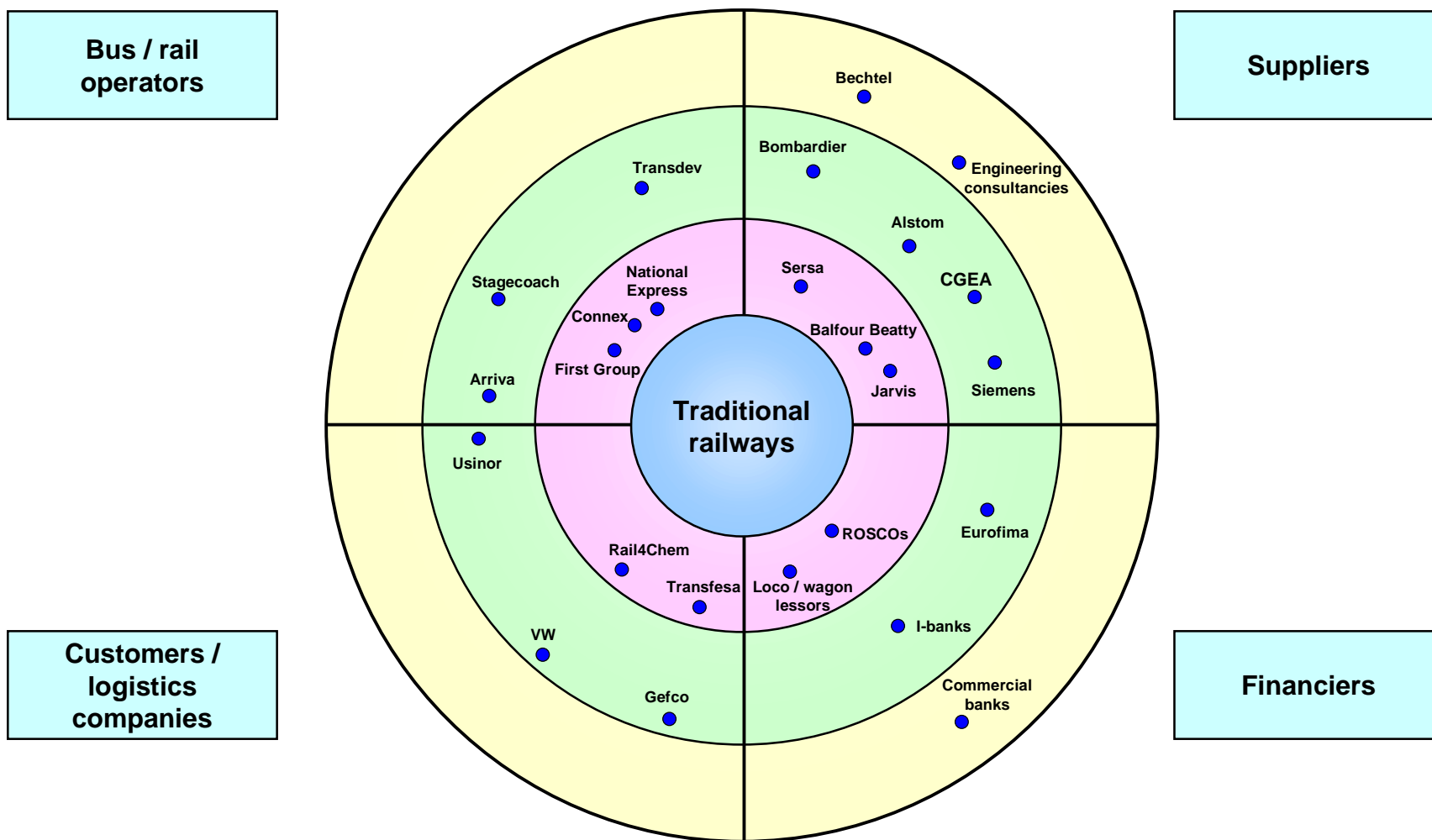
Each of the core infrastructure processes changes in the new environment ...



A variety of new operators are emerging as competitors to traditional operators.



In Europe traditional railways and their suppliers have learned to think in terms of a wide 'radar screen' of competitors for the public provision of rail services.



Railways Outside Europe: Accelerated pace of restructuring

Structural change also is occurring outside of Europe. Differing approaches create challenges and opportunities for new private operators and as well as suppliers.

Outright privatization and sale

New Zealand Rail
Australian Railways

Franchising of key services

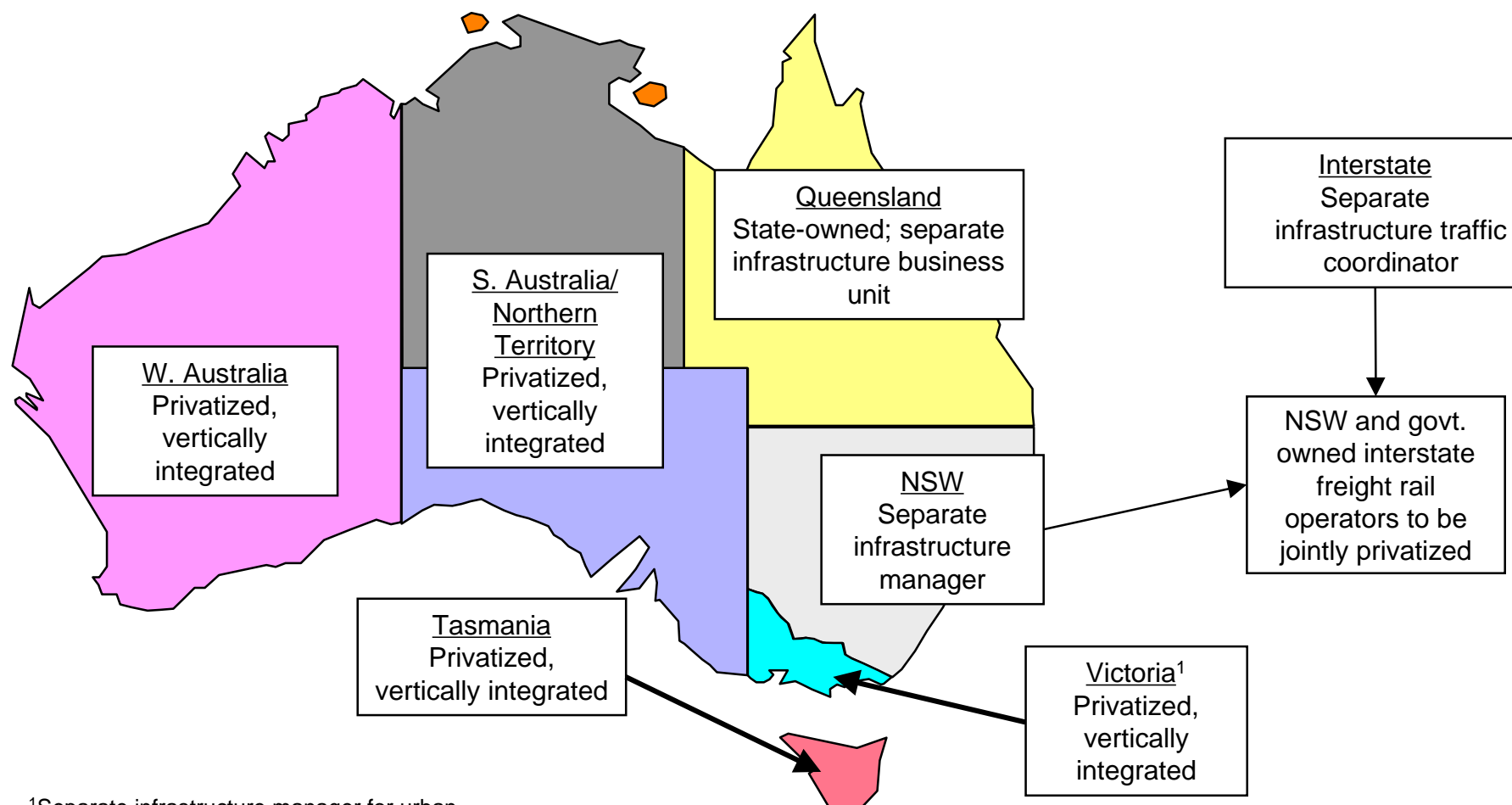
Colombia
Peru
Argentina
British Rail
**North American
Carriers**
Chile
Mexico
South Africa
Gabon

Intense outsourcing of functions and services

**Australian
Railways**
**European
Railways**
**North American
Carriers**

Railways Outside Europe: Varying implementation models

Some nations (e.g., Japan, Mexico) have chosen largely vertically integrated railway structures. In Australia, for example, management of access by vertically integrated railways has been seen as a way to maximize values from privatization.

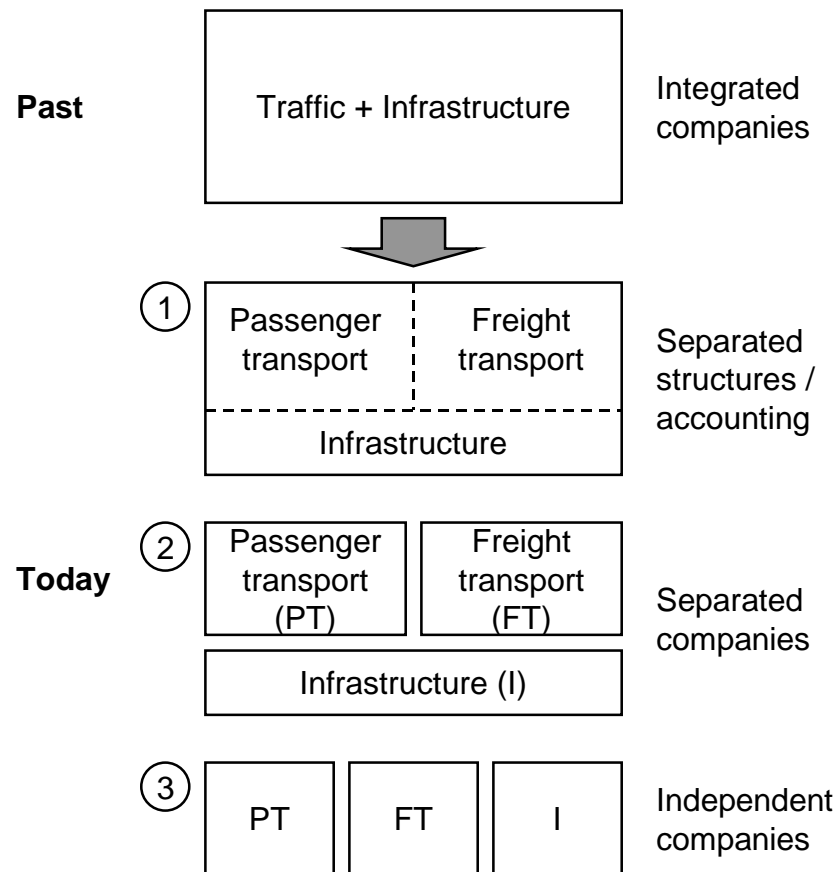


¹Separate infrastructure manager for urban (passenger) network.

Railways Outside Europe: "Unbundling" of railway companies

However, there is substantial interest private operator involvement in horizontally separated structures. As in Europe, this has significant consequences for infrastructure product and service providers.

"Unbundling" of railway companies



Consequences

- The separation of transport and infrastructure led to (internal) customer / supplier relationships
- The separate accounting creates transparency and increases the pressure on cost control for infrastructure managers
- Philosophy of a discrimination-less network access and published access charges ensure an equal treatment for all railway companies
- Increasing demand due to new entrants and foreign rail companies as well as changing "market balance" between passenger and freight transport
- Setup of marketing and distribution departments within infrastructure managers
- Need for products in line with the market (in the sense of service packages) and efficient sales and order processing processes

Major rail suppliers are growing through the acquisition of smaller players and are building sufficient scale to join existing operators as candidates for the restructuring of Amtrak activities.

	GE Harris Harmon Railway Technologies	Trinity	Progress Rail	Alstom	Bombardier
Locomotives					
Railcars		<ul style="list-style-type: none"> Astra Vagoane S.A., Feb. 1999 		<ul style="list-style-type: none"> FIAT Ferroviaria (51% stake), Oct. 2000 De Dietrich Ferroviaire, July 1998 Konstal, Oct. 1996 	<ul style="list-style-type: none"> Waggonfabrik Talbot, 1995 DWA, 1998
Railcar Parts and Services		<ul style="list-style-type: none"> Wear Products, LLC, April 2000 Proline Services, Feb. 2000 MCT Holding, parent of McConway & Torley, Oct. 1998 	<ul style="list-style-type: none"> CAE Vanguard, Nov. 1999 United Industries, Aug. 1998 Viking Engineering (division), Aug. 1998 Blue Industrial Group, June 1998 Amarillo Railcar, May 1998 	<ul style="list-style-type: none"> AMF, March 1996 Wessex Traincare (Holdings) Ltd., Feb. 1998 	<ul style="list-style-type: none"> Adtranz, 2001
Signals & Right-of-Way	<ul style="list-style-type: none"> DJR, March 1999 Siliani Elettronica ed Impianti S.p.A., March 1999 CSS Inc., Jan. 1998 Vale-Harmon, June 1997 		<ul style="list-style-type: none"> Kershaw Manufacturing, Sept. 1998 	<ul style="list-style-type: none"> SASIB (GRS), Jan. 1998 	<ul style="list-style-type: none"> Adtranz, 2001
Systems	<ul style="list-style-type: none"> SES Co., Oct. 1998 Angiolo Siliani S.p.A., March 1999 Syseca, March 1999 Devtronics, Nov. 1997 RailTec Late 1997 Vaughan Systems, July 1996 			<ul style="list-style-type: none"> Cegelec, May 1998 	
Other Industries			<ul style="list-style-type: none"> Railcar Ltd., April 1996 	<ul style="list-style-type: none"> ABB, March 1999 	

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- III. Possible paths forward
- IV. Trends in European railway liberalization
- V. Illustrative example of a potential public/private partnership opportunity
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Appendixes:

- Qualifications of Mercer Management Consulting, Inc.
- Railway privatization case studies
 - Argentina
 - Mexico
 - Japan

What do creative private partners see as opportunities? A hypothetical example

Two of the most pressing transportation challenges facing the United States are airport congestion and the future of Amtrak. If Mercer applies the understanding of private operators from other countries, a new vision for rail transportation could help solve both problems.

- The United States faces growing congestion of many hub airports, along with opposition to the construction of additional capacity. The reduction in congestion since September 11 represents a respite, not permanent relief.
- Amtrak has consumed close to \$25 billion of federal funds, yet has failed to contribute significantly to a sustainable national transportation system. The government now faces a decision concerning whether to continue to fund intercity passenger service through Amtrak or to adopt a new model.
- A restructured rail passenger system could help to address airport congestion.

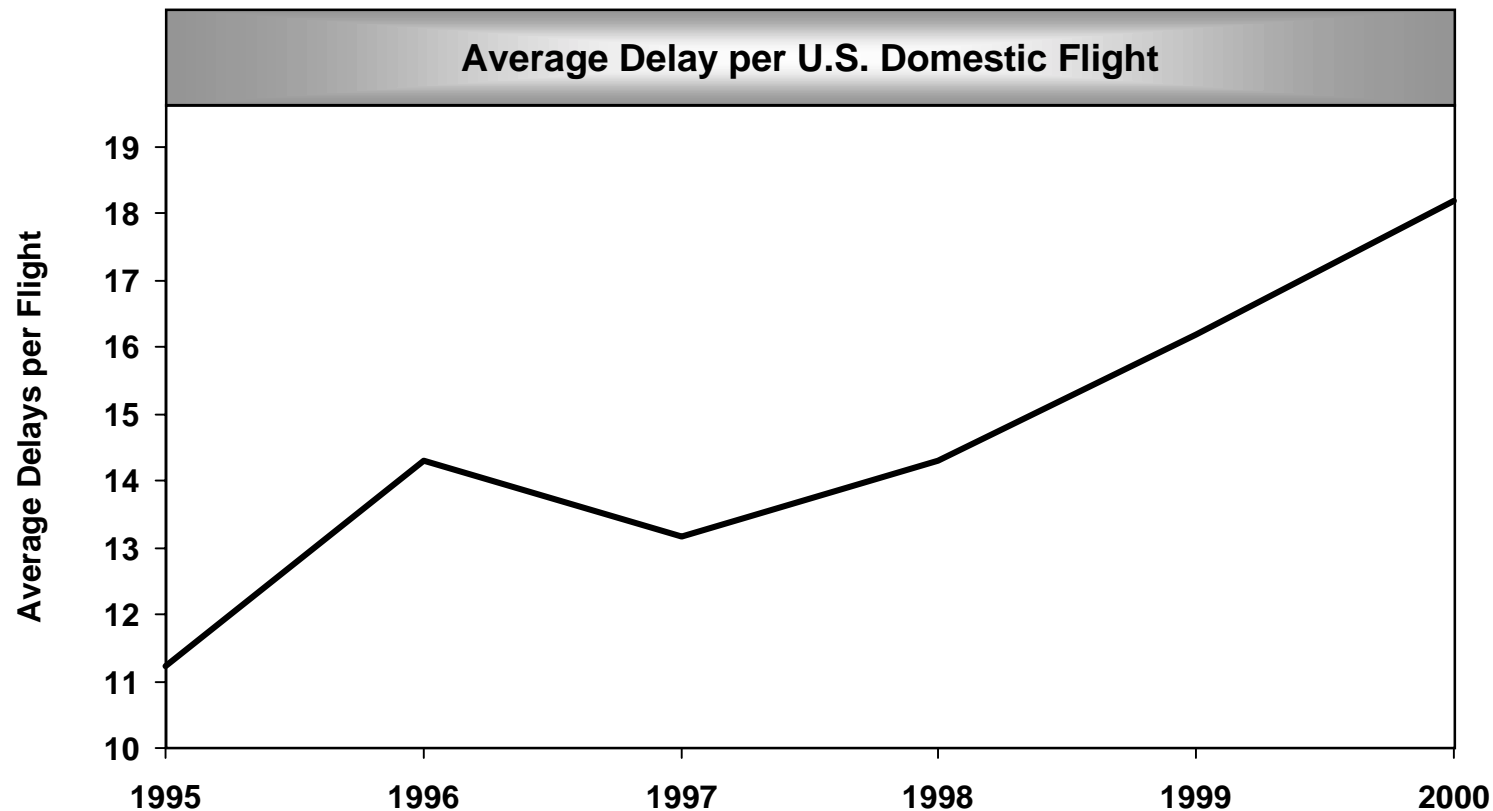
A possible private operator opportunity to help? One strawman...

The government could restructure and refocus intercity passenger rail strategy to:

- Introduce the benefits of competition (efficiency and customer service)
- Focus Federal investment where it will have the greatest benefit (i.e., regional rail systems linked to airport connections, dense corridors)
- Restructure Amtrak by:
 - Concessioning operation of the Northeast corridor to the private sector
 - Encouraging states and private parties to develop rail corridor services, including high-speed corridors, and to hire private operators
 - Concessioning long-haul, leisure-oriented rail passenger routes and equipment to the private sector

Airport congestion

The U.S. air transport system faces large and growing delays. Before September 11, flight volumes were growing 2-3 percent per year--much faster than capacity. Mercer expects air traffic congestion to develop again by mid-2003.

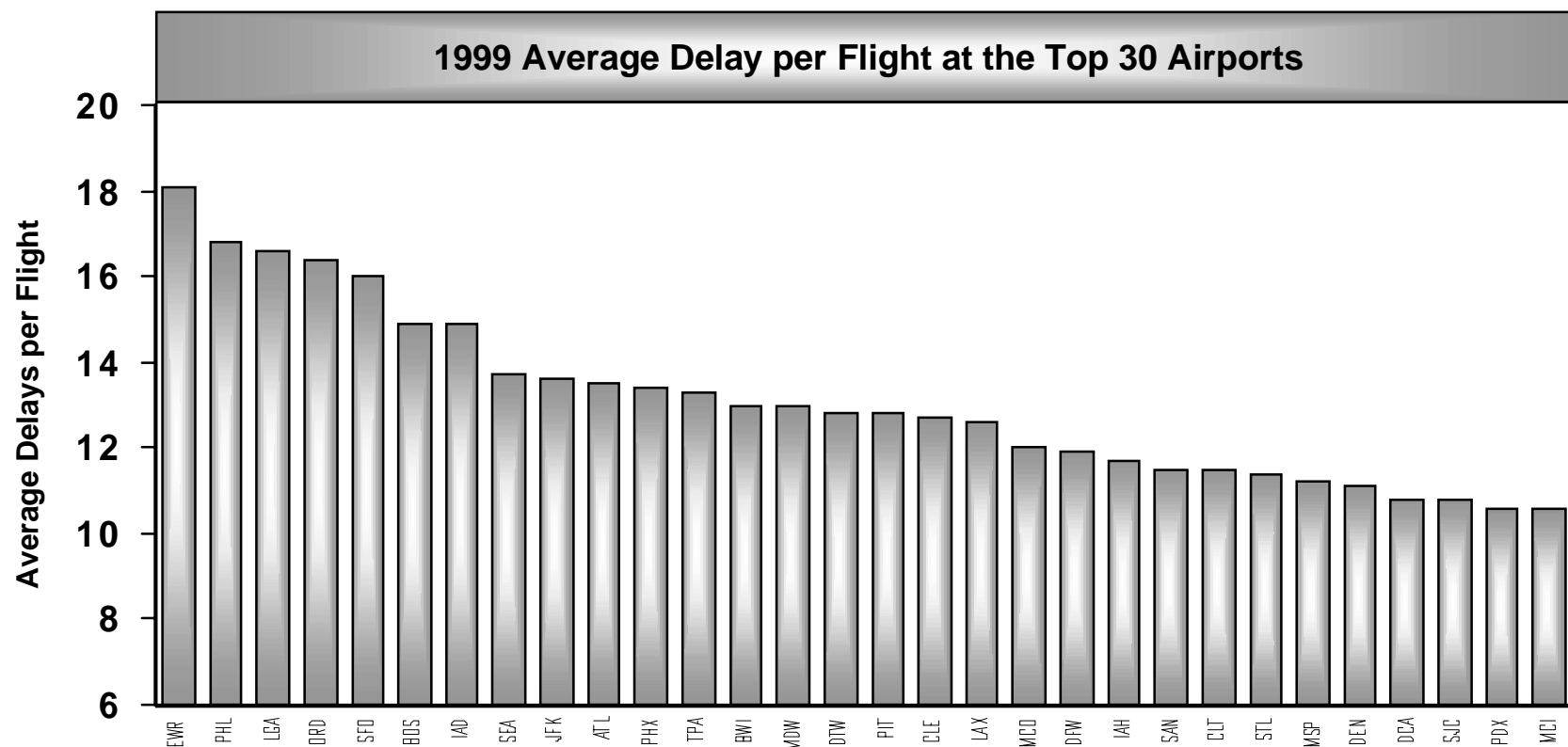


Before September 11, delays per flight were growing at 10 percent per year, and cost \$11 to \$14 billion per year.

Source: DOT Office of Inspector General, Report Number CR-2000-112 and economic analysis

Airport congestion

Airport congestion is concentrated in the top 30 airports by enplanements.



Source: FAA

The growing capacity gap

Despite growing congestion, over the last ten years only one new major airport and six new runways were built. The US is simply not adding enough capacity to accommodate growth--particularly at the most congested airports.

The most congested airports aren't adding capacity...		
Airport	Timing	Planned / Ongoing Capacity Upgrades
Newark	NA	<ul style="list-style-type: none">No projects planned, proposed, or currently underway.
Philadelphia	NA	<ul style="list-style-type: none">No projects planned, proposed, or currently underway.
La Guardia	NA	<ul style="list-style-type: none">No projects planned, proposed, or currently underway.
Chicago O'Hare	NA	<ul style="list-style-type: none">No projects planned or currently underway. Initial discussions beginning on a major improvement program.
San Francisco	NA	<ul style="list-style-type: none">No projects planned, proposed, or currently underway at this airport Initial discussions beginning on a new runway which is at least 10 years off.



...So delays will increase
<ul style="list-style-type: none">Runway projects currently take about 10-15 years to completeThe FAA projects minimal capacity increases at the most congested airports between now and 2010With demand growing faster than capacity, delays at these airports will increase rapidly (roughly 10-15 percent per year)Linking rail to airports could attack this problem in two ways:<ul style="list-style-type: none">Diverting a portion of short-haul flights to rail would free up capacityFederal commitment to supporting regional rail could be used as leverage to get local approval for additional capacityLinking rail systems into airports would also increase ridership and financial sustainability

Source: FAA 2000 Airport Capacity Enhancement Plan

Rail policy

The current U.S. passenger rail policy is structured around Amtrak - a government owned and administered monopoly operating a long-haul, light-density, national passenger rail network with minimal linkage to air transportation or other modes.

Amtrak Route Map and Proposed Changes

System Changes Proposed by Amtrak

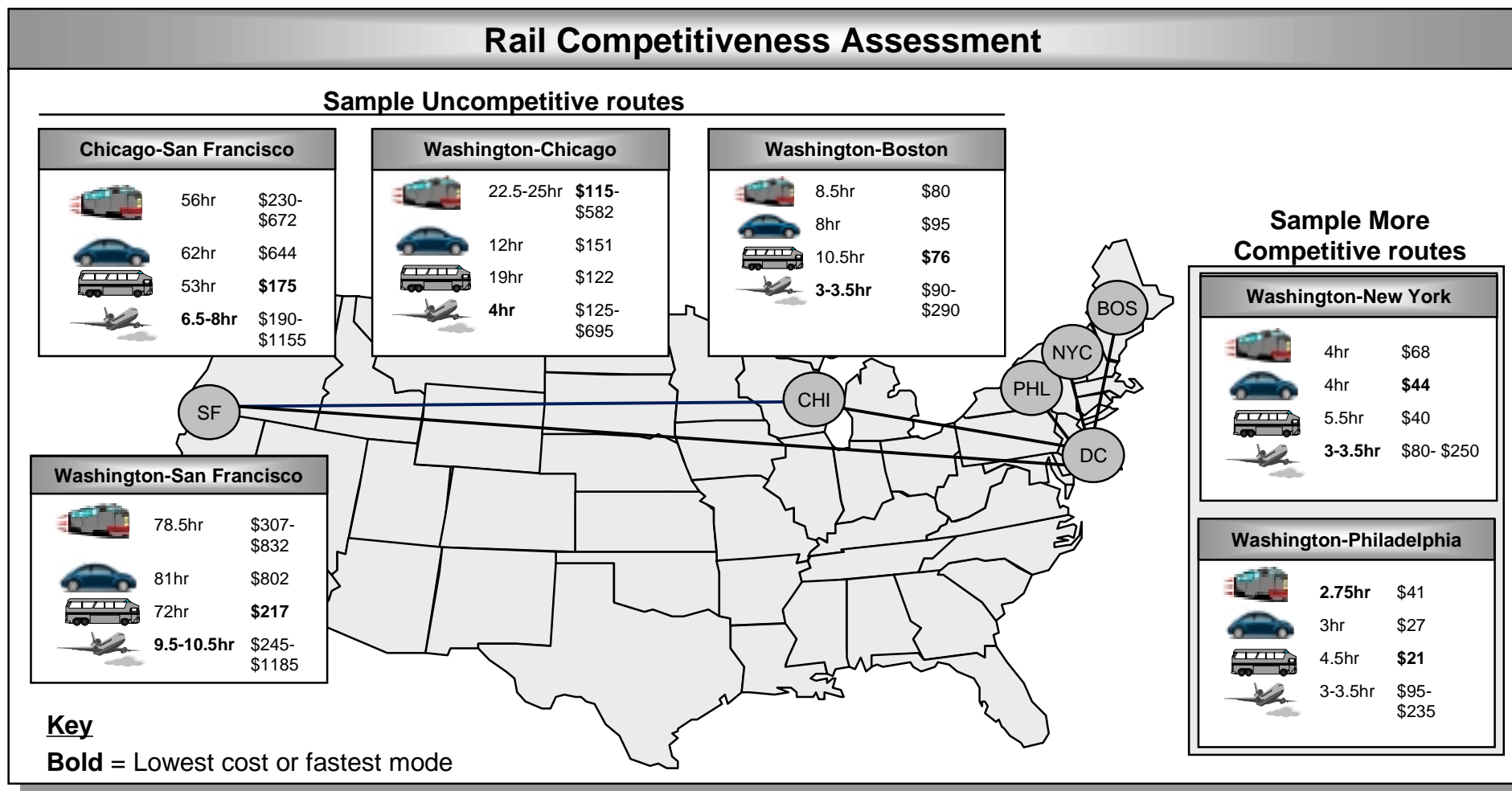
- Continue system expansion:
 - Increase station pairs by 10%
 - Expand 11 routes
 - Increase frequencies on 3 routes



— Extend Route — Increase Route Frequency — Same Routing

The cause of decline

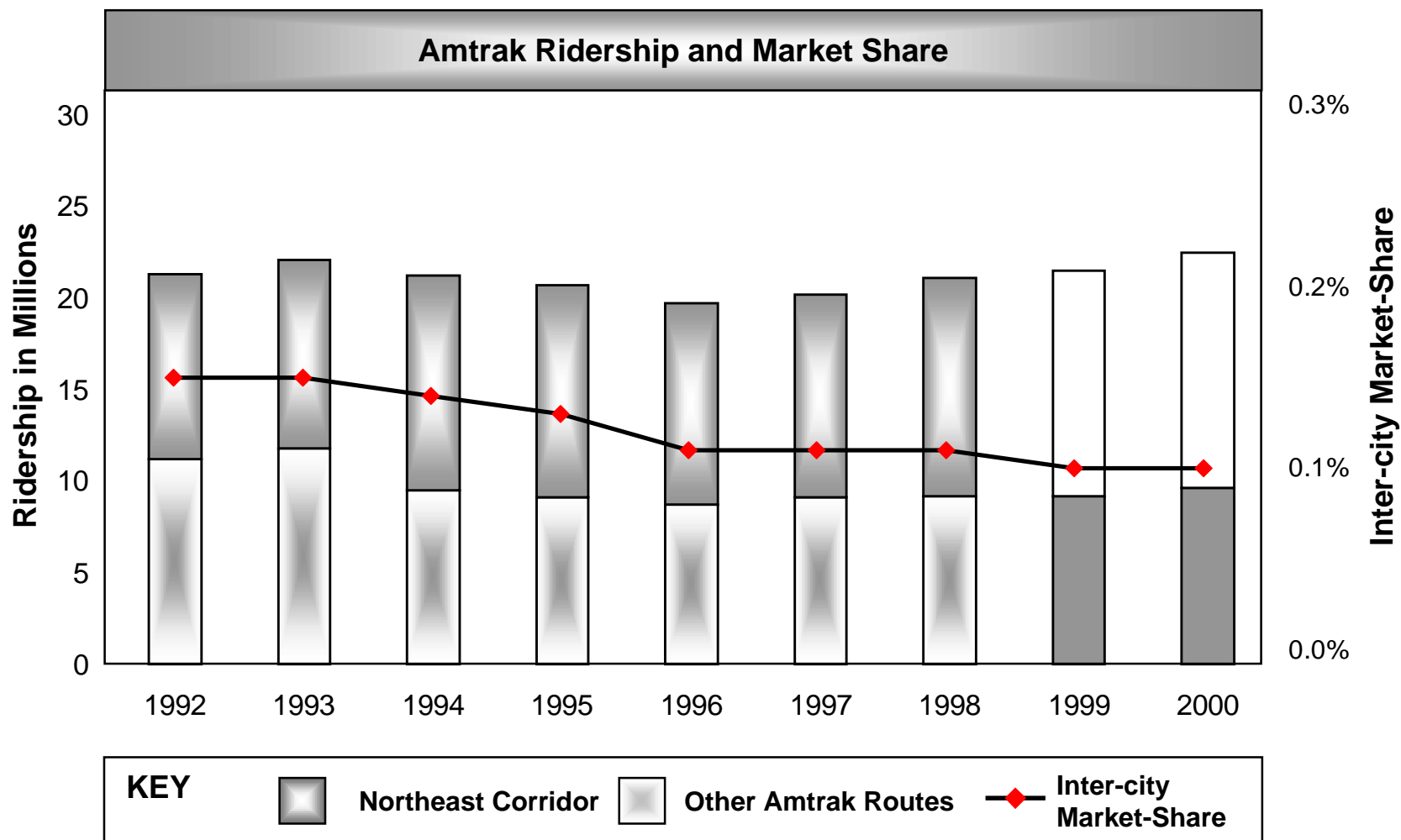
Current U. S. rail policy does not address the fact that rail is not competitive with airplanes over longer distances, or with cars and buses on thinly traveled shorter routes.



Note: All prices reflect one-way standard fares (round trip purchase may be required), with costs and time adjusted for food and (for car) lodging. Times adjusted for connections and automobile driver rest stops.

The strategic impact of a failed policy

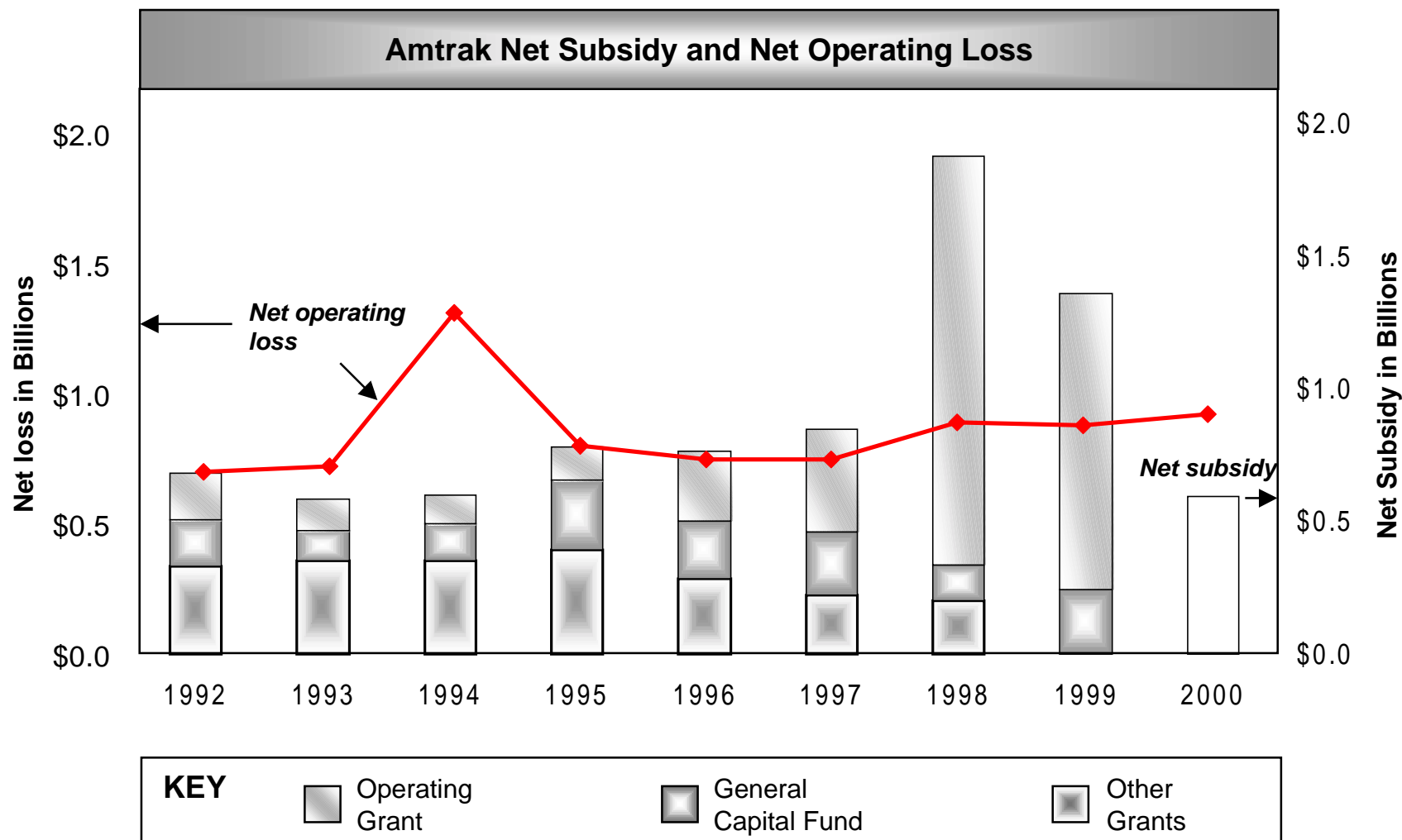
The net effect of this failure is that Amtrak now accounts for less than one inter-city trip per 1,000, and its ridership has fallen sharply outside the Northeast corridor.



Source: Analysis of Amtrak data

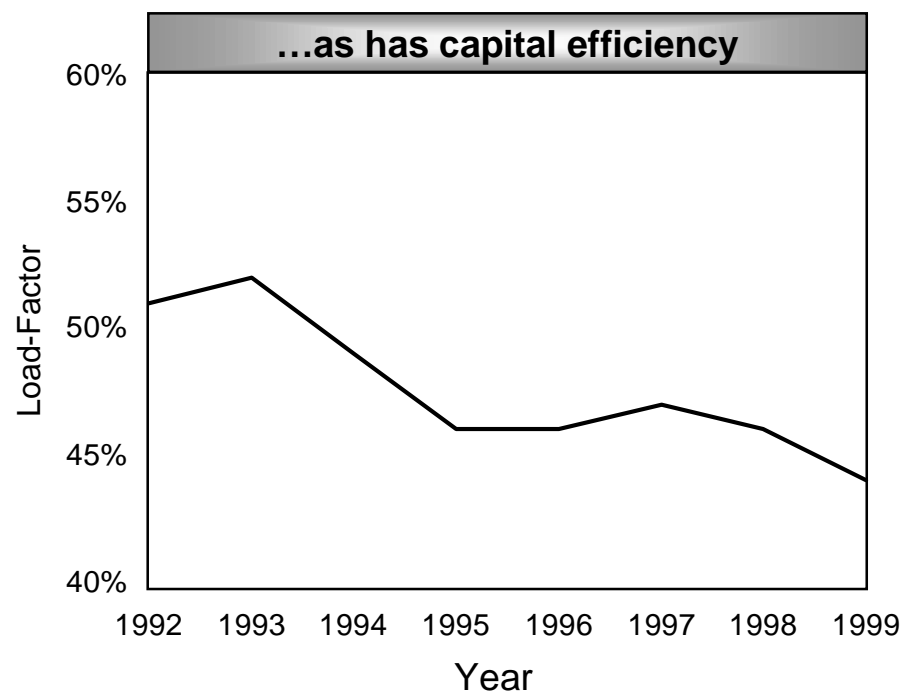
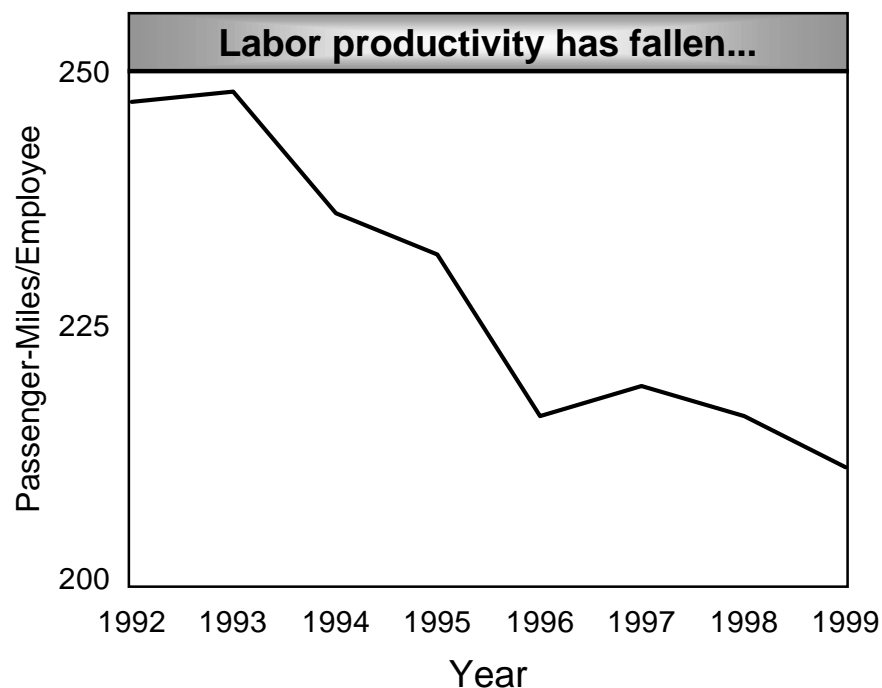
The financial impact of a failed strategy

The financial costs have also been material. Amtrak has received \$24 billion in Federal subsidies since inception, with an average subsidy of \$1.3 billion per year from 1998-2000.



Source: Analysis of Amtrak data

Amtrak's operating efficiency has continued to decline, despite the 1997 Amtrak Reform and Accountability Act (ARAA) which granted it the flexibility needed to improve performance.



Amtrak's inability to improve labor and capital productivity suggests any attempt to reform the existing Amtrak structure will fail

Source: Analysis of Amtrak data

The reauthorization dilemma

Prior administrations tried different strategies to reform Amtrak, all of which failed.

Failed Strategies				Potential Alternative
Policy	Kill Amtrak	Reform Amtrak	Expand Amtrak (Amtrak Proposal)	Revitalize & Redefine Rail
Key Points	<ul style="list-style-type: none"> Amtrak is inefficient and should be eliminated If services are worthwhile, someone else will provide them 	<ul style="list-style-type: none"> Amtrak is important, but inefficient Amtrak should be reformed to make it more efficient 	<ul style="list-style-type: none"> Amtrak would work if it just had more investment Amtrak's funding should be increased 	<ul style="list-style-type: none"> Rail is valuable, but Amtrak may not be Focus should be on maximizing "bang-for-the buck" from rail investment
Outcome	<ul style="list-style-type: none"> Political resistance is too strong, and change is too difficult Amtrak is reauthorized 	<ul style="list-style-type: none"> Little or no impact on actual efficiency Results in numbers games to be "self-sufficient" 	<ul style="list-style-type: none"> Increased investment does not improve efficiency Investment diversion Wasted money 	<ul style="list-style-type: none"> Separate the future of passenger rail from the future of Amtrak Get Amtrak to focus on operations with more accountability
Politics	<ul style="list-style-type: none"> Opposed by media, labor & liberals Failure wastes political capital The perfect is the enemy of the good 	<ul style="list-style-type: none"> Avoids hard choices Bad policy / will not produce real results 	<ul style="list-style-type: none"> Sound bite politics of bad decisions Ignores / eliminates Amtrak accountability Diverts money from higher priorities 	<ul style="list-style-type: none"> Increased role for private sector / reduced role for government More competition Pro-rail / environment

Time is short for the government to develop a new passenger rail policy. Amtrak's current operating mandate expires in October 2002.

The Challenge

- Amtrak is seeking capital subsidies of \$10 billion *in addition* to continuing operating subsidies
- Without a bold new vision, the government faces the “lose-lose” proposition of maintaining status quo or trying (unsuccessfully) to eliminate Amtrak. However, the government is sharply focused on security issues, so probably will need other parties to be the catalyst in developing the vision.

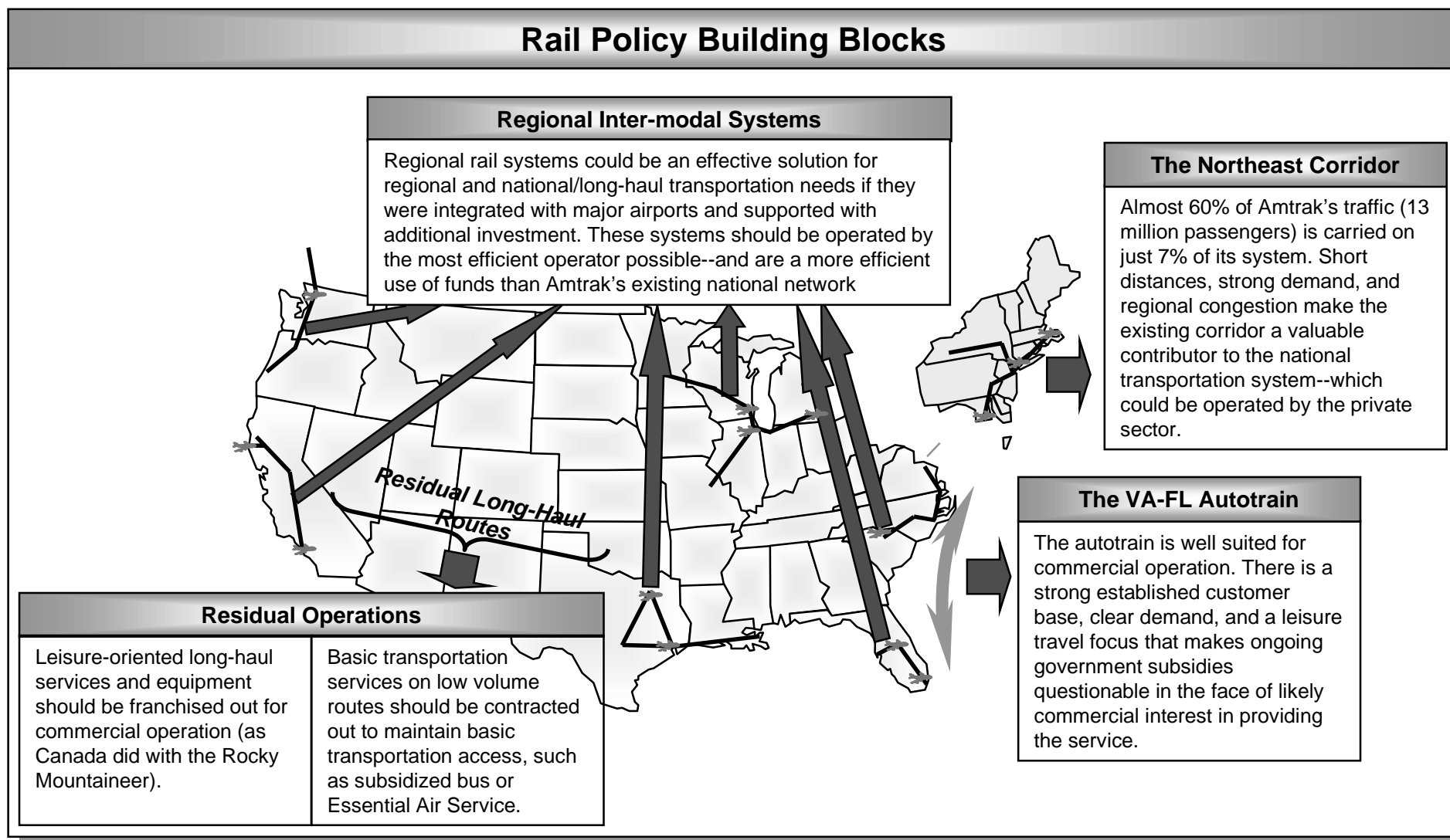


A possible response that would help attract private interest

- The government needs a clear and compelling alternative to the Amtrak options of the past (expand / reform / kill)
- There is support at the Amtrak Reform Council and elsewhere to develop a new vision for intercity rail policy, but one or more interested parties needs to take the lead in developing a coalition to develop the vision quickly and to build support for it aggressively.

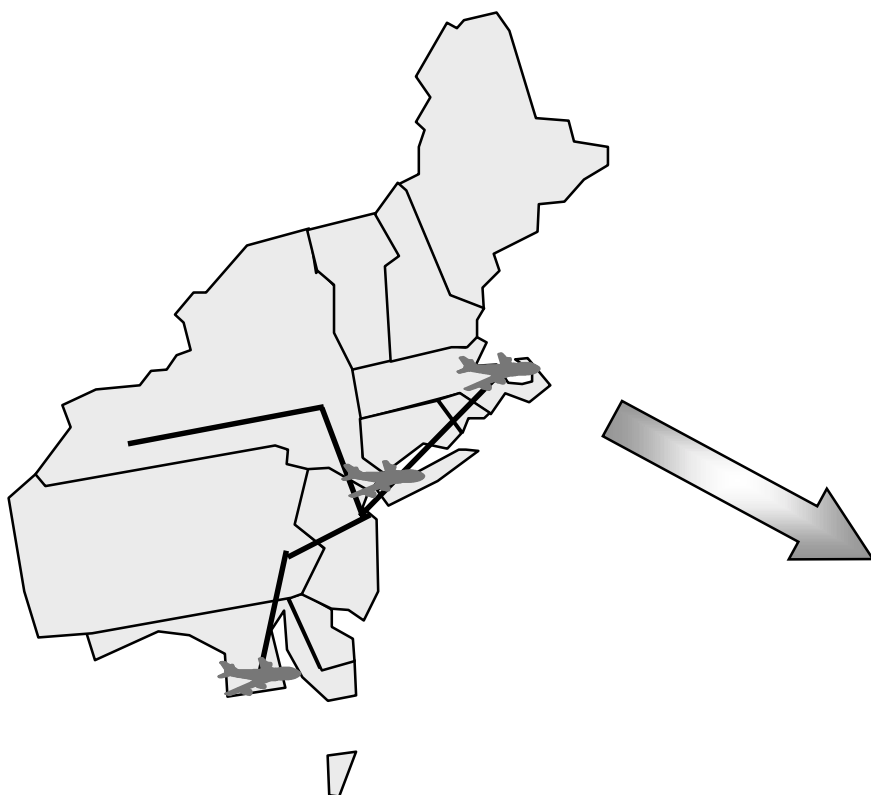
Attracting private operators and investors

By focusing funding on high-density corridors, introducing private competition and encouraging states and others to develop new services, the government can increase the use of passenger rail, reduce subsidies, and decrease congestion at key airports.



The Northeast Corridor

The Northeast corridor handles almost 60 percent of Amtrak's ridership on a small fraction of Amtrak's total track. The Northeast corridor could be concessioned to a private operator or sold to a private operator with the proceeds reinvested.

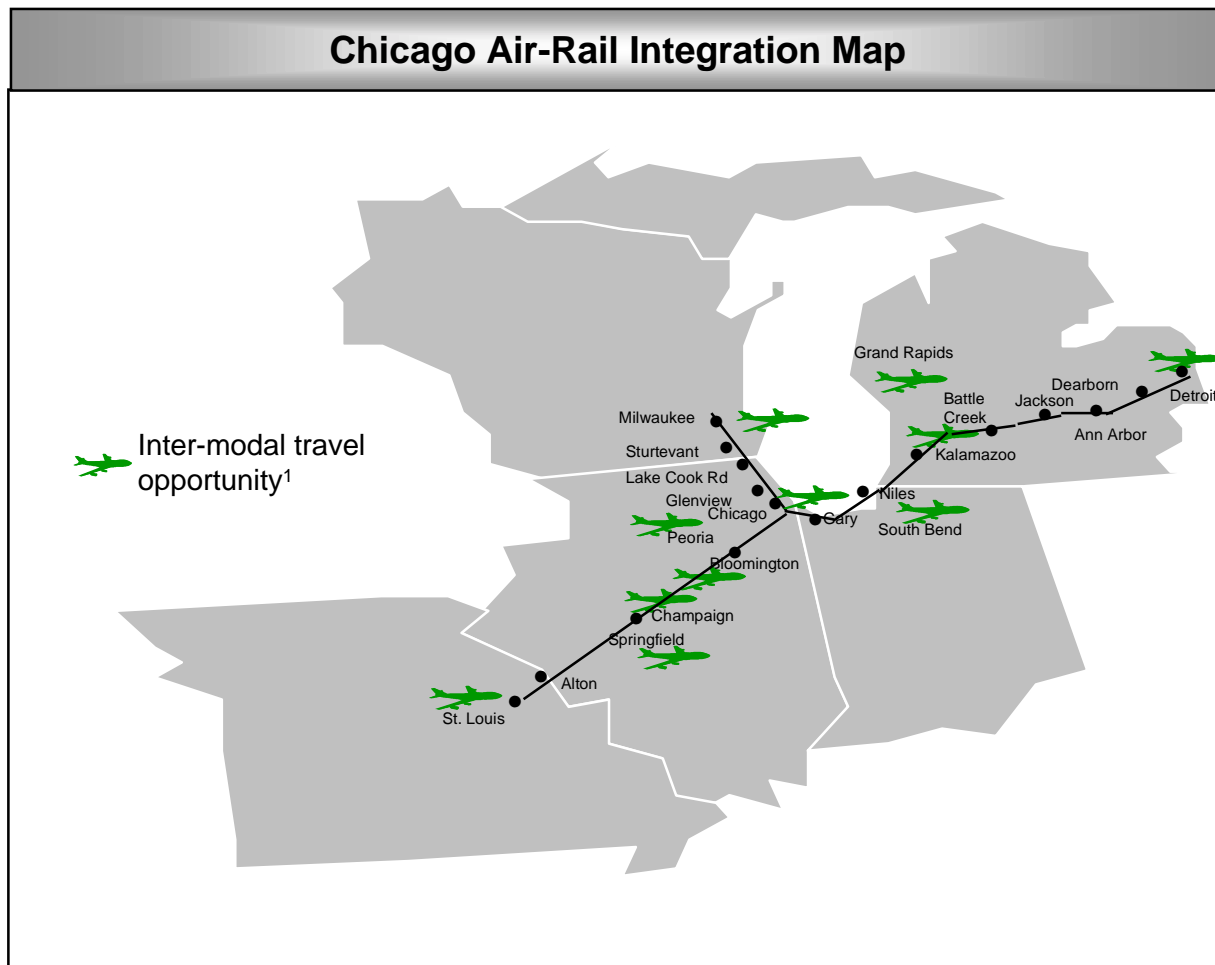


A Commercial Opportunity

- Commercial rail operators have proven their ability to improve financial performance
- Contracting out or auctioning off the Northeast Corridor could reduce the cost to the Federal government, and might improve service

Regional inter-modal rail systems

As an example of potential regional inter-modal systems, integrating a Midwest system with the downtowns and airports in Detroit, Milwaukee, St. Louis, and Chicago O'Hare would reduce short-haul flights and ground congestion and improve downtown access.



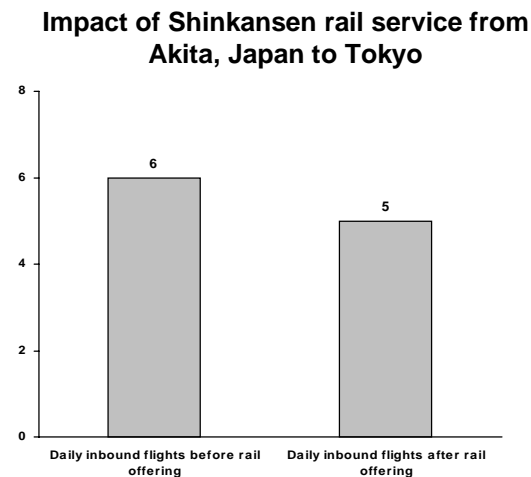
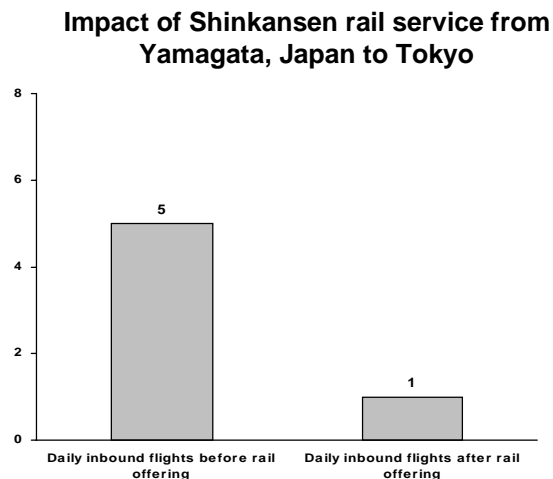
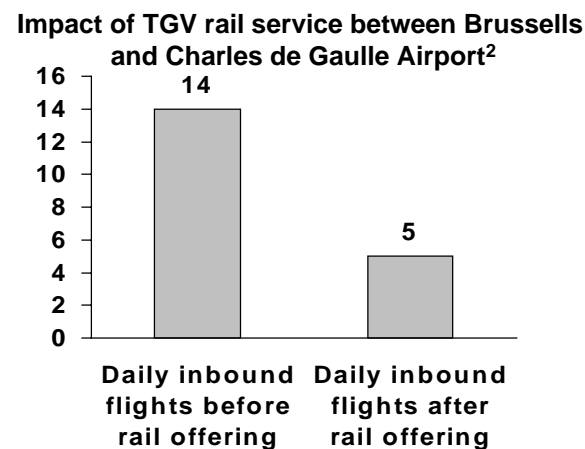
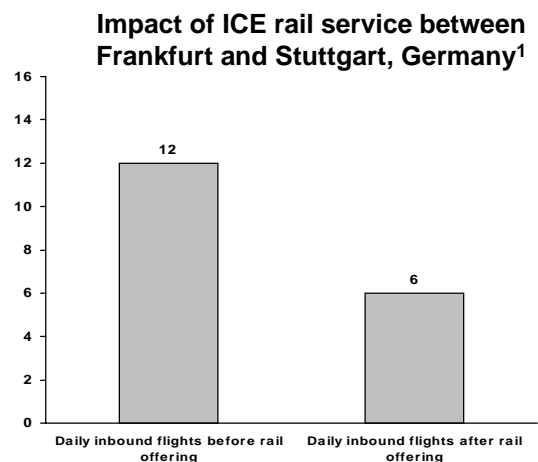
Potential Benefits
<ul style="list-style-type: none">• An integrated inter-modal system would provide:<ul style="list-style-type: none">– Rail service equivalent to over 140 local daily flights into O'Hare– An estimated reduction in local commuter flights of about 70 flights per day²– Reduced local highway access needs (mostly cars and taxis) by up to 20 percent– Improved service through better connectivity, faster travel times and lower costs for air passengers• Commitment to an inter-modal HSR system might reduce local resistance to adding capacity at O'Hare if the HSR system was contingent on runway approval

¹ Rail assumed to be viable travel alternative if within 50 miles of an airport.

² Based on comparable European rail market share (estimated at 50%, E.g., Eurostar claims 62% of London-Paris and 46% of London-Brussels markets).

Sample impact of regional inter-modal rail

In both Europe and Asia, inter-modal rail has proven that rail linked with airport connections can reduce pressure on airports and increase passenger rail ridership.



¹ ICE and air combined service initiated in March 2001.

² TGV service began in January 1998.

Source: Official Airline Guide

Europe is looking to rail as an alternative to short haul feeder flights. As European rail becomes more established and integrated with air travel, subsidies are declining with some routes approaching standalone profitability.



History

- Lufthansa, Deutsche Bahn, and Frankfurt Airport created AIRail as a joint venture in March 2001

- TGV Air service between Paris and Brussels was initiated in January 1998 with the completion of track between Belgium and France

Services

- Offers short-haul service between Stuttgart and Frankfurt Airport with combined rail/air tickets, seamless connections, and slightly lower travel times compared to flying

- Provides high-speed rail service from Charles de Gaulle Airport to Brussels
- Combined air and rail tickets are available

Ridership

- Current AiRail Service passenger capacity is 640 passengers per day, increased from 550 in June 2001

- Approximately 2.8 million passengers annually on the Brussels-Paris route in 2000
- Ridership grew by 7.5% from 1999-2000

Impact

- Lufthansa has reduced its 12 daily flights by 50%, currently using 6 flights and 6 rail trips

- Since 1998, air travel between Brussels and Paris has been reduced by over 50%, with Air France selling tickets on the TGV offering
- Route is approaching stand-alone profitability

Similarly, in Japan the introduction of competitive rail operations that are integrated with airports has led to declining market share for air travel, and has helped JR East Group achieve profitability.



Yamagata Shinkansen

History

- JR East Group initiated high-speed service between Yamagata, Japan and Tokyo in July 1992
- Since privatization in 1987, the Shinkansen routes have contributed to JR East's 9% revenue growth from 1994-1999

Services

- Fast, reliable long-distance transport (224mi) between Yamagata and Tokyo in 2.5 hours
- Provides frequent connections in Tokyo to Narita airport via a rapid express train

Ridership

- Served over 3 million passengers in 2000

Impact

- Increased rail market share between Yamagata and Tokyo
- Reduced total daily flights from 11 to 3 since start of service



Akita Shinkansen

- High-speed service between Akita, Japan and Tokyo began March 1997, improving commuter access
- This new Shinkansen "bullet train" route is part of JR East's expanded commuter offering

- Fast, reliable long-distance transport (411mi) between Akita and Tokyo in less than 4 hours
- Provides frequent connections in Tokyo to Narita airport via a rapid express train

- Served approximately 2.8 million passengers in 2000

- Increased rail market share between Akita and Tokyo from under 50% to 60% since inception
- Reduced air travel by 20% in the first 6 months

Leisure-oriented passenger rail

Leisure-oriented rail services have considerable potential for commercial operation outside of the core rail transport corridors, and on some segments such as the Virginia-to-Florida Autotrain.

The Leisure-Travel Opportunity

- Amtrak's long-haul routes are primarily leisure-oriented (as Amtrak's marketing tacitly acknowledges)
- There is little or no reason to provide government subsidies for leisure travel
- Accordingly, Amtrak should exit its money-losing long haul routes, since these routes are not essential to the national transportation system and are not be financially self-sustaining
- Currently, Amtrak leases access to selected scenic routes to the American Orient Express Company, also providing locomotive power and maintenance services
- Rights to operate these and other long-haul leisure-oriented services should be concessioned off to the private sector (e.g., Disney, Carnival, existing passenger rail excursion operators), including the transfer of:
 - Access rights and legal authorization
 - Excursion-oriented rolling stock and equipment

Case Study: Rocky Mountaineer Railtours

- In 1990, the Canadian government decided to stop subsidizing leisure-oriented passenger train service and to privatize its daylight excursion service
- Through a competitive auction, the Great Canadian Railtour Company was awarded the rights to operate the daylight service
- The management team decided to offer scenic tours along the Canadian Pacific coast and across the Canadian Rocky Mountains
- Significant capital investment has been made in the tourist-related equipment and amenities (e.g., 6 luxury dome coaches)
- An extensive network of alliances and ties have been developed with the the tourist trade industry to increase awareness and sales (airline discounts, free hotel upgrades etc..)
- By offering a differentiated value proposition to the leisure traveler, Rocky Mountaineer Railtours has been able to charge a premium while maintaining high levels of customer satisfaction and employee retention

Replacing basic transportation services

Where necessary, transportation service on unprofitable rail routes could be subsidized at a much lower cost than today through a program like Essential Air Service.

Providing Basic Transportation Services

- On long-haul routes that are not an efficient use of resources, or that are primarily leisure-oriented, some customers may still rely on rail access
- A legitimate concern of Congress is to make sure that constituents access to basic transportation services is preserved
- If the underlying goal of rural and small town passenger rail is to provide basic transportation services, then this goal should be met as efficiently as possible
- Basic transportation services could be provided in multiple ways, and there is little or no reason why rail service in particular would be required
- Routes that might be impacted by rail service should be assessed for their underlying transportation needs, and these needs should be targeted as efficiently as possible

Policy Alternatives

- There are a number of potential policy alternatives to ensure basic transportation needs are met. These include:
 - Create an Essential Air Service requirement to replace reduced rail services
 - Subsidize a bus route or other surface transportation to replace rail access
 - If rail is truly essential, then the routes should be put up for bid, and the subsidy should be made explicit.
- It is not fair to Amtrak or potential future operator to expect them to operate at a break-even and to subsidize rural transportation. Making subsidies explicit would help avoid this issue.

Political advantages of HSR integration

If positioned correctly, rail passenger policy reform would benefit key stakeholders and interest groups, and would provide the Administration with political advantages for key constituencies.

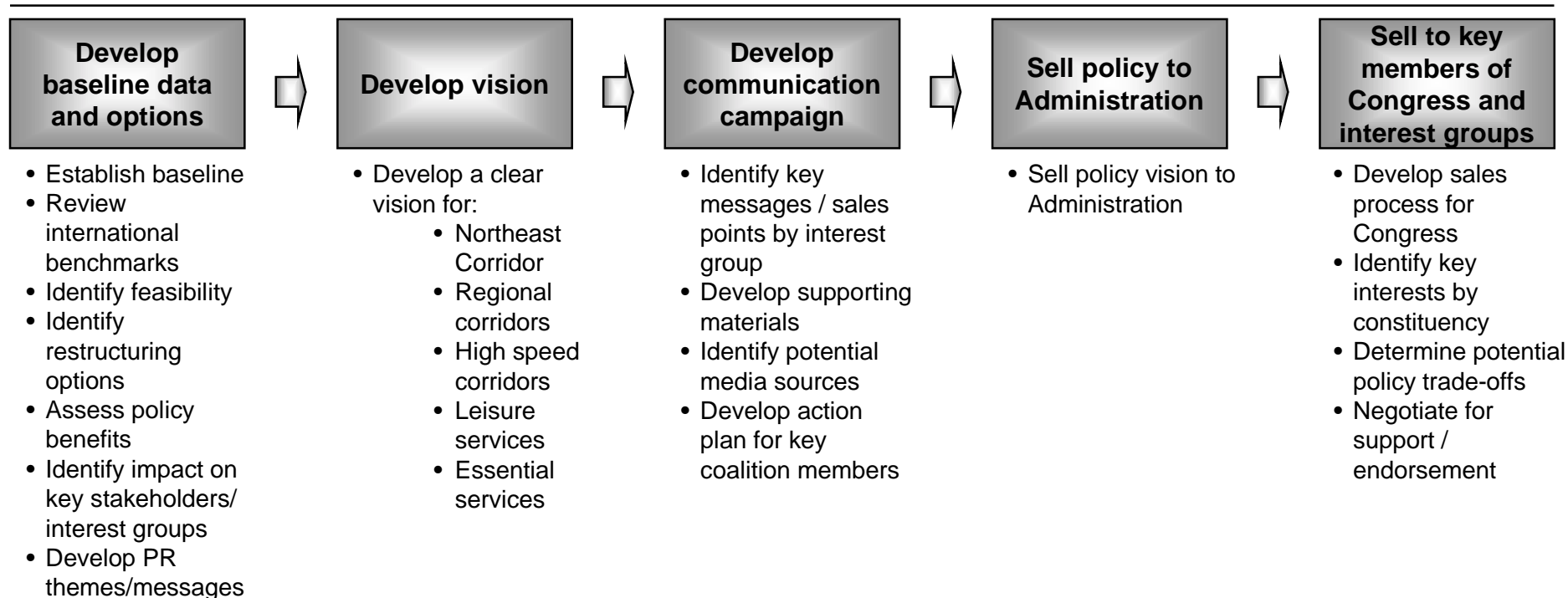
Unions	Congress	Airlines	States	Media	Rail suppliers
<ul style="list-style-type: none">• Construction unions would support development of new HSR systems• Amtrak unions would oppose, but these concerns could be partially offset through use of buy-outs and hiring boards	<ul style="list-style-type: none">• Congress would be largely motivated by the interests of their states• Construction unions would largely offset the concerns of Amtrak unions• Conservatives could endorse the policy on Federalist grounds (a shift of power to the states) and reduction of subsidies	<ul style="list-style-type: none">• Airlines would support better inter-modal integration to address ground congestion and strengthen key hubs• Based on European experience, the airlines will also be interested in developing integrated air-rail products	<ul style="list-style-type: none">• The states are key supporters of regional high speed rail systems• States that would likely be impacted by new HSR systems would probably support the policy shift• Remaining states might support the proposal in exchange for inexpensive service guarantees	<ul style="list-style-type: none">• While the media likes Amtrak, it also likes rail and particularly high speed rail• Pursuing a shift to inter-modal regional HSR systems would position the administration as innovative “moderates”• Passenger rail is environment friendly	<ul style="list-style-type: none">• Growth oriented market• Opportunities to participate as operators or investors• Drive for new technologies• New markets• Move downstream and increased involvement in operations

Timeline

With Amtrak reauthorization scheduled for the fall of 2002, the clock is already ticking. If increased private sector participation is to have a chance, the private sector will need to see an aggressive effort to develop and sell a bold new vision for intercity rail passenger service.

Key Steps

Fall 2002



O'Hare airport and the Midwest are a prime opportunity to start restructuring U.S. rail policy around regional intermodal systems--building regional political support while resolving one of the greatest transportation congestion problems facing our country.

The Importance of O'Hare

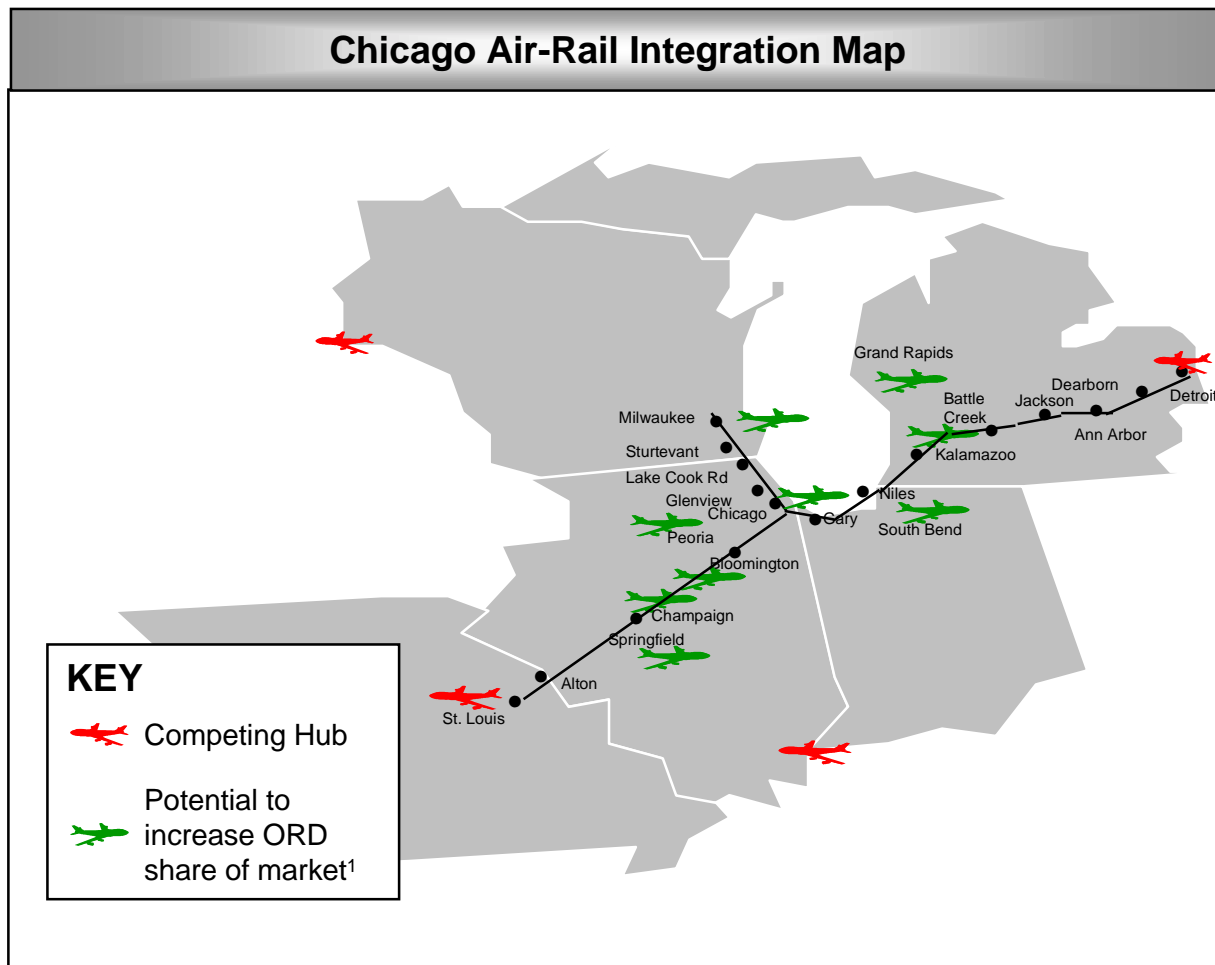
- O'Hare airport plays a critical role in the national transportation system and is at a critical juncture with its plans to add additional capacity
- If approved, the capacity approval plan would solve O'Hare's airport delay problems for at least the next 20 years.
- If the plan is not approved, O'Hare's delays will skyrocket, and the airport will require Federal intervention
- In addition to its role in the national transportation system, O'Hare is a key hub for the two largest airlines in the U.S., American and United

The Rail Integration Alternative

- Inter-modal passenger rail could use either of two rail corridors that pass near O'Hare to provide regional rail service--including a down-town express train (separate from existing Metra service)
- Given the amount of construction proposed at O'Hare, this is a good time to try to integrate rail service into the airport master plan
- This service would link Milwaukee, St. Louis and Detroit with Chicago (targeting four battleground states) with improved rail service
- By endorsing Federal support for a regional intermodal passenger rail system, the Administration could help broker regional consensus on the system while:
 - Showing its sensitivity to concerns about the impact of airport expansion
 - Reducing the need for feeder flights
 - Reducing ground access congestion
 - Laying the foundation to restructure Amtrak

The airline benefit

Regional intermodal rail would benefit major airlines in several key ways including increasing major hub's catchment areas, reducing short-haul flights, providing a basis for competitive differentiation, and building political support for airport capacity improvement.



Potential Benefits at ORD
<ul style="list-style-type: none">A Chicago-centric regional intermodal system would strengthen the competitive position of the major Chicago carriers (United & American)The system would draw passengers from parts of Wisconsin, Michigan, Indiana and Illinois that might otherwise connect via a short-haul flight to a competing hub--improving Chicago's connectivity relative to competing regional hubsFurther, by integrating their operations with the intermodal system more than competitors, United and American could increase their share of Chicago-area traffic by differentiating their serviceFinally, willingness to support an intermodal system could be used as a bargaining chip to win State support for increasing capacity at ORD--which is critical to maintaining O'Hare's long-term position

¹ Rail assumed to be viable travel alternative if within 50 miles of an airport.

² Based on comparable European rail market share (estimated at 50%, E.g., Eurostar claims 62% of London-Paris and 46% of London-Brussels markets).

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Based upon its experience, Mercer believes that private operation of rail passenger service in the United States will be most successful if it is governed by certain basic principles.

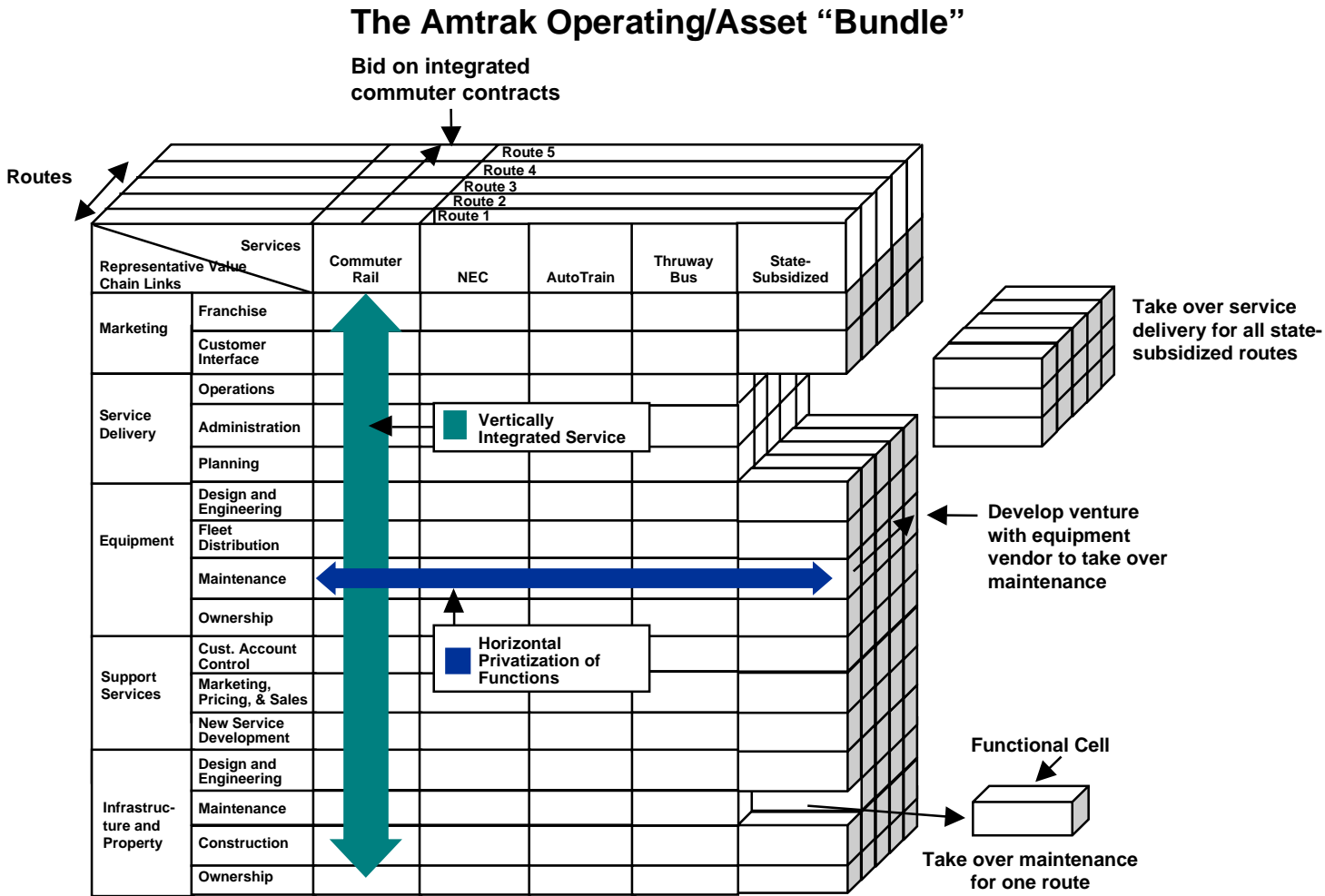
- Commitment by the federal government to fundamentally restructure the way in which railroad passenger service in the United States is organized, and to encourage its development
- Commitment to gaining the benefits of competition by creating an open and transparent rail passenger service marketplace involving world-class passenger rail industry providers
- Commitment to providing passenger rail services based on market demand so that:
 - The services provided are those that passengers are most willing to pay to use
 - Federal funding is directed to those services with the greatest demand and market potential
 - Services are added, discontinued, or adjusted based upon demand
- Commitment by the federal government to funding that provides leverage to state, local, and private funds and supports services with the highest passenger demand
- Commitment to maximizing the involvement of private passenger service providers and state and local governments in designing services tailored to regional, state, and local markets and development plans
- Commitment to fair treatment for any Amtrak employee displaced in the restructuring process

Mercer recommends that the government design the elements of its restructuring plan for passenger rail service based on international standards and its prior success in restructuring other businesses (e.g., Conrail, Chrysler).

- National Passenger Rail Authority (NPRA): A small organization, likely housed within DOT, should be created to hold Amtrak's statutory rights to operate passenger and mail and express service over freight railroads and to act as grantor of such rights to public and private operators. It should (1) select the National Passenger Rail Network Manager, (2) serve as the decision maker for allocation of federal rail passenger subsidies, (3) serve as the single point of contact for the freight railroads with respect to passenger train access, and (4) negotiate and price access fees for passenger operators over lines owned by freight railroads.
- Passenger Rail Restructuring Agency (PPRA): A temporary government agency – similar to the United States Railroad Association, which managed the successful reorganization of Conrail, and to the Resolution Trust Corporation, which managed the S&L crisis – should be created to plan and manage the transition from Amtrak to a new passenger rail service structure and to deal with transitional tasks (for example, labor restructuring, the sale of Amtrak assets, and settling Amtrak's remaining financial obligations).
- National Passenger Rail Network Manager: A private organization should be selected to award concessions and manage concession contracts. Operating just as other private companies do – such as McDonald's or Avis – this organization would act as the manager of concessions (franchises). It would be rewarded for the success of those concessions. It could provide national, integrated management of functions such as revenue settlement, reservations, advertising, purchasing, insurance, brand management, and service coordination.
- Northeast Corridor Asset Company: A federal organization should be created to own the NEC infrastructure. It should hire one or more contractors to manage, operate, and maintain the corridor.

Blueprint for private operation of passenger rail service

As proposed under this blueprint plan, the Network Manager would unbundle Amtrak’s service offerings to define the specific operating and asset transactions where private companies could participate in providing rail passenger services.




Blueprint for private operation of passenger rail service

Unbundling Amtrak assets and services will create a wide variety of investment opportunities for the private sector.

The Current Amtrak “Bundle”

 Amtrak Only

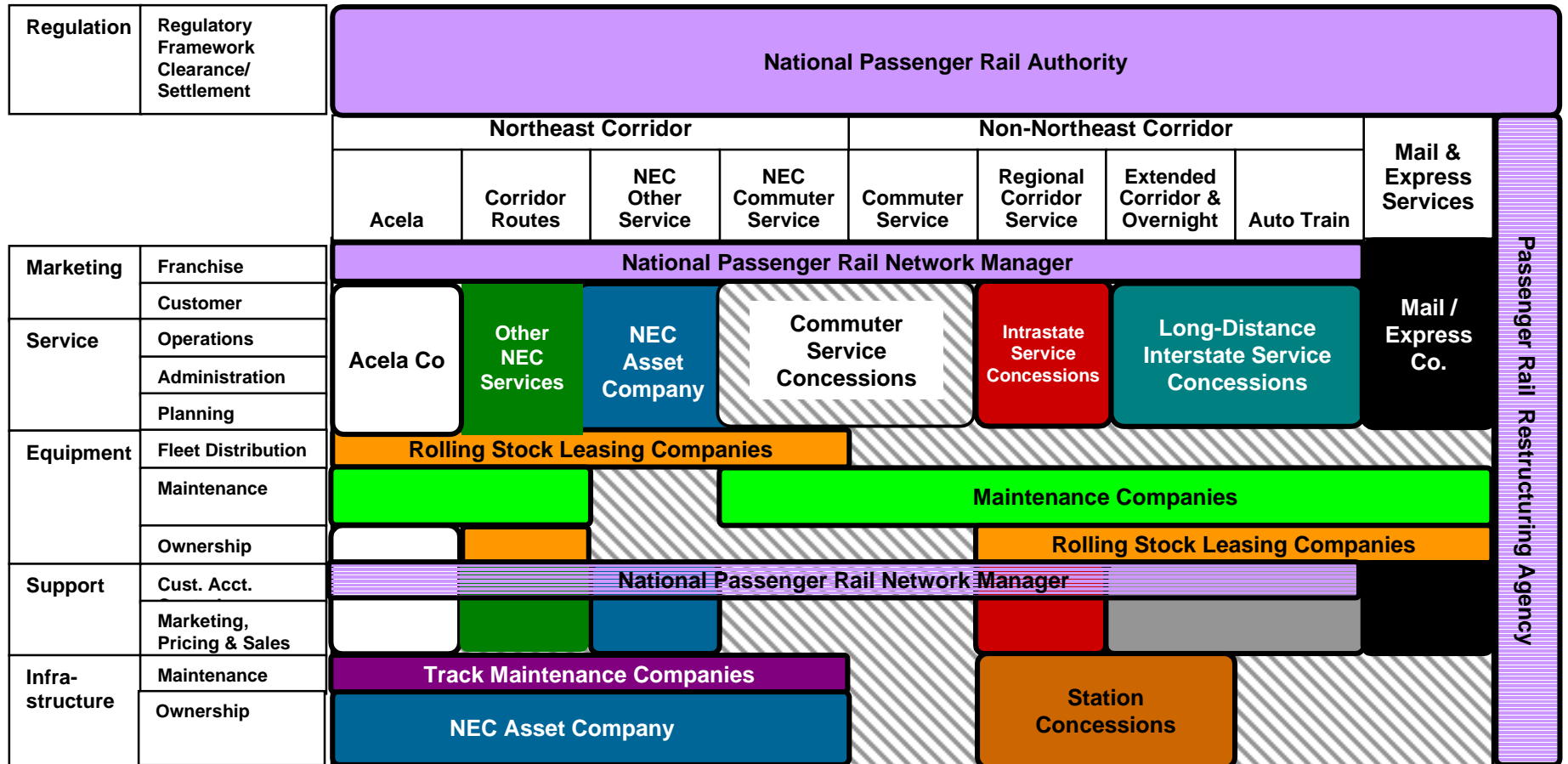
 Mixed Amtrak / Other party

 No Amtrak

		Northeast Corridor				Non-Northeast Corridor				Mail and Express
		Acela	Corridor Routes	Other Services	Commuter Service	Commuter Service	Regional Corridor Service	Ext Corr & Overnight Services	Auto Train	
Market-ing	Franchise	Amtrak Separate Brand	Amtrak in NEC SBU	Part of Amtrak Corp SBU	Regional transit authority		Amtrak in West/InterCity SBU			Amtrak in North/InterCity SBU
	Customer Interface									
Service Delivery	Operations	Amtrak	Amtrak -passenger operations and mail express services over longer routes		Amtrak	Amtrak except Sounder	Amtrak			Amtrak
	Administration	Amtrak Separate	Amtrak in consultation with regional authorities		Regional transit authority		States choose and fund operations under 403(b)	Amtrak in consultation with regional authorities		
	Planning									
Equipment	Design Eng.	Equipment providers		N/A	Equipment providers					
	Fleet Distribution	Amtrak			Regional authority with Amtrak	Regional authority with Amtrak + track owners	Amtrak in conjunction with track owners			
	Maintenance	Outsourced to NEC MSC but uses Amtrak Labor	Amtrak		Amtrak	Amtrak or other parties (Boise Locomotive, BBD)	Amtrak			Amtrak
	Ownership	Amtrak	Amtrak/state (Empire)	N/A	Regional authority					
Support Services	Cust. Acct. Control	Amtrak			Regional transit authority		Amtrak			Amtrak
	Marketing, Pricing & Sales						Amtrak in consultation with state/local government	Amtrak		
	New Service Dev									
Infrastructure and Property	Design and Engineering	Construction / engineering firms and Amtrak				Class I's, states, regional transit authorities. Contracting engineering firms				
	Maintenance	Amtrak (except for portions owned by MBTA and CDOT)			Amtrak except for VRE service	Regional authorities	Amtrak does station maintenance, other parties maintain the track and infrastructure			
	Construction	Construction / engineering firms								
	Ownership	Amtrak except some portions of NEC			Transit authority / Amtrak	Class I's, states, regional transit authorities own the track, some stations and infrastructure. Amtrak owns some stations				

Blueprint for private operation of passenger rail service

The Network Manager would respond to private and state/local initiatives to operate specific services, and also could proactively offer specific services to private investors and operators.



Note: Color coding indicates the scope of the bundle.



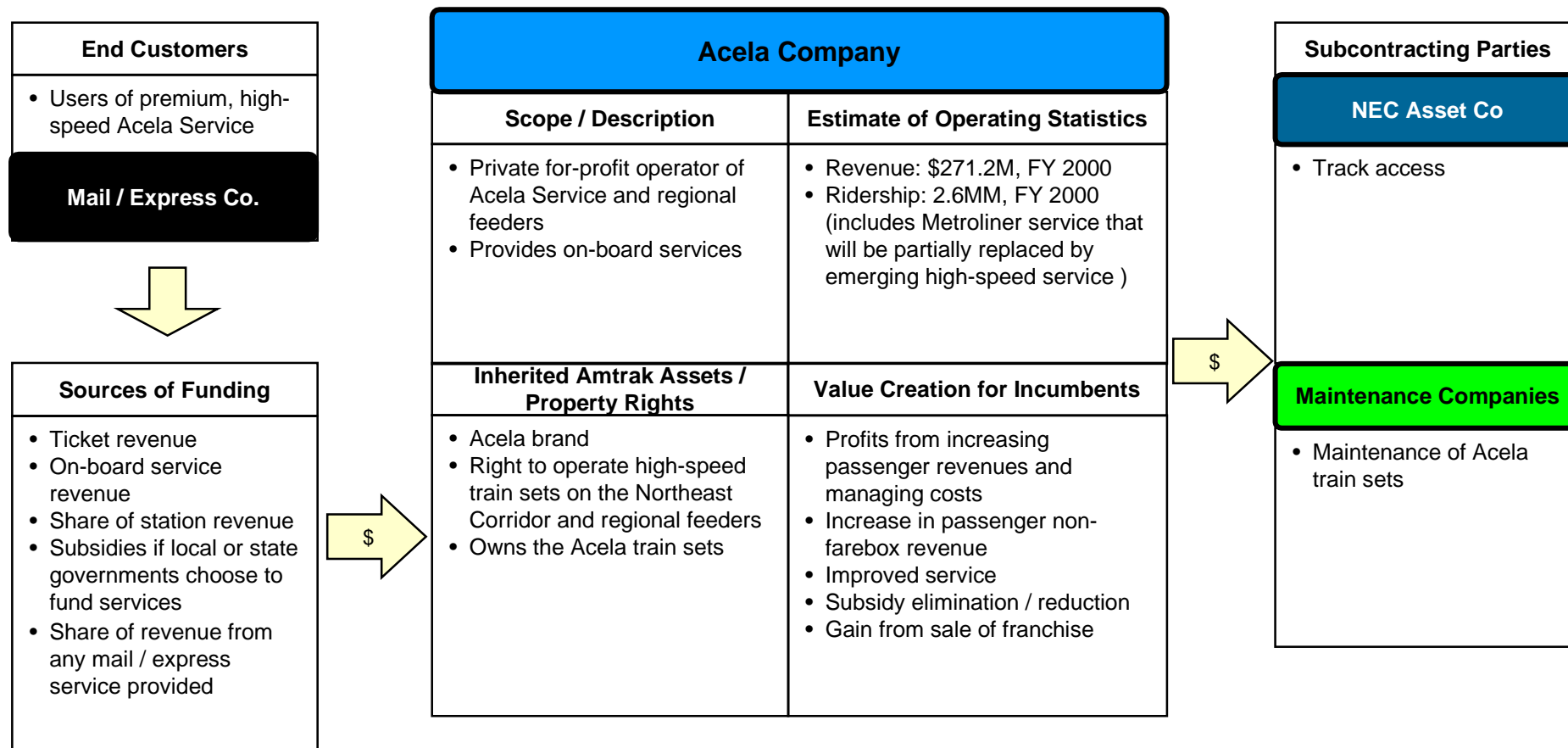
Continuation of role by current party

This structure incorporates the positive features of rail privatizations that have occurred worldwide, while avoiding the difficulties encountered by Railtrack in the United Kingdom.

- Private operation of passenger and freight services worldwide has led to substantial improvements in customer service, increases in traffic, and decreases in cost (and thus decreases in government subsidies).
- In the UK, the train operating and equipment companies established during the privatization of British Rail have been highly successful, although the track operating company (Railtrack) encountered difficulties.
 - This blueprint for Amtrak provides for operating and equipment companies similar to those established in the UK. These companies have been successful, significantly increasing ridership, reducing or eliminating government subsidies, and introducing new passenger equipment on many services.
 - Railtrack was originally established as a *private* owner and operator of infrastructure. It was unable to fund and manage the upgrading and maintenance required to increase capacity and meet new safety requirements imposed by the government. Railtrack has recently been placed into reorganization proceedings, and it is currently being reorganized as a public entity that will use private contractors.
 - This blueprint establishes a *public* owner for the NEC from the start. This public owner would hire private firms to operate and maintain the property. This structure should avoid the problems encountered by Railtrack, while gaining the benefits of private operation and maintenance.
- The structure described in this blueprint builds on the successes in international privatization.

Blueprint for private operation of passenger rail service

A newly formed Acela Company would own the Acela brand, train sets, and rights to operate premium, high speed service on the Northeast Corridor (NEC), including the right to provide regional feeder services (e.g., NE Direct).



Notes: Financial estimates do not include interest, depreciation or capital improvements. Operating statistics for FY 2000 are based on pro-rated estimates. Value creation estimate is calculated as NPV of 10-year operating cash flows before interest and depreciation and assumes availability of federal subsidies for the restructuring period of FY1-FY3. FY 2001 data includes financials for Metroliner Service and does not include Acela Regional.

Source: Amtrak FY2000 Annual Report; Amtrak Reform Council, February 2002

Blueprint for private operation of passenger rail service

The NEC's demographics and physical characteristics are similar to those of Japan Rail Central, suggesting that the Acela Company should be profitable on an operating basis and should be able to contribute to the capital required to improve Acela service and transit times.

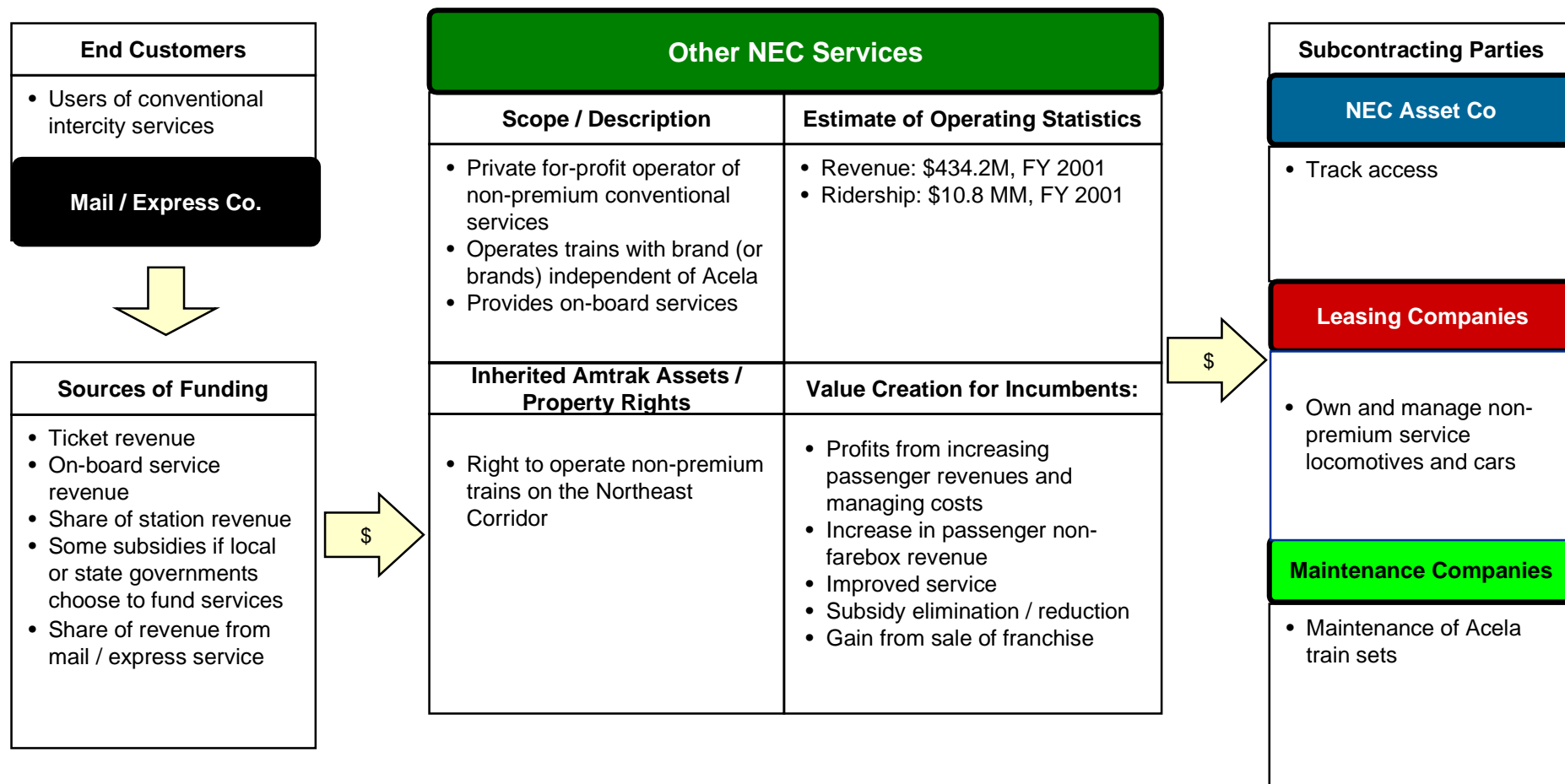
Comparison Item	JR Central Tokaido Shinkansen	Amtrak Northeast Corridor
<ul style="list-style-type: none">• Corridor<ul style="list-style-type: none">– Route Length (miles)– Track– Power	<ul style="list-style-type: none">• Tokyo~Nagoya~Osaka<ul style="list-style-type: none">– 322 (Tokyo~Nagoya 214)– Dedicated double track– Electrified (AC 25kV)	<ul style="list-style-type: none">• Washington DC~New York~Boston<ul style="list-style-type: none">– 457 (DC~NY 226)– Non-dedicated track– Electrified (AC 12kV, 25kV)
<ul style="list-style-type: none">• Demographics<ul style="list-style-type: none">– Metropolitan Area Population	<ul style="list-style-type: none">• Japan<ul style="list-style-type: none">– 53,972,095 (1995)	<ul style="list-style-type: none">• United States<ul style="list-style-type: none">– 40,079,419 (1998)
<ul style="list-style-type: none">• Operation<ul style="list-style-type: none">– Maximum Speed– Frequency– Travel Time Between Destinations– Fare (Business Class)– Annual Passengers– Annual Revenue	<ul style="list-style-type: none">• Nozomi, Hikari, Kodama<ul style="list-style-type: none">– 169 mph (270 km/h)– 285 trains / day– 2:30 (Tokyo~Nagoya 1:36)– \$113 (Tokyo~Nagoya \$87)– 130,500,000 (2001)– \$7,169M (2001)	<ul style="list-style-type: none">• Acela/Metroliner<ul style="list-style-type: none">– 150 mph– 27 trains / day– 6:33 (DC~NY 2:42)– \$164 (DC~NY \$146)– 2,652,000 (2001)– \$271.2M (2001)



JR Central currently operates without subsidies

Blueprint for private operation of passenger rail service

One or more additional concessions should be granted by the Network Manager to provide non-premium intercity passenger service on the NEC.

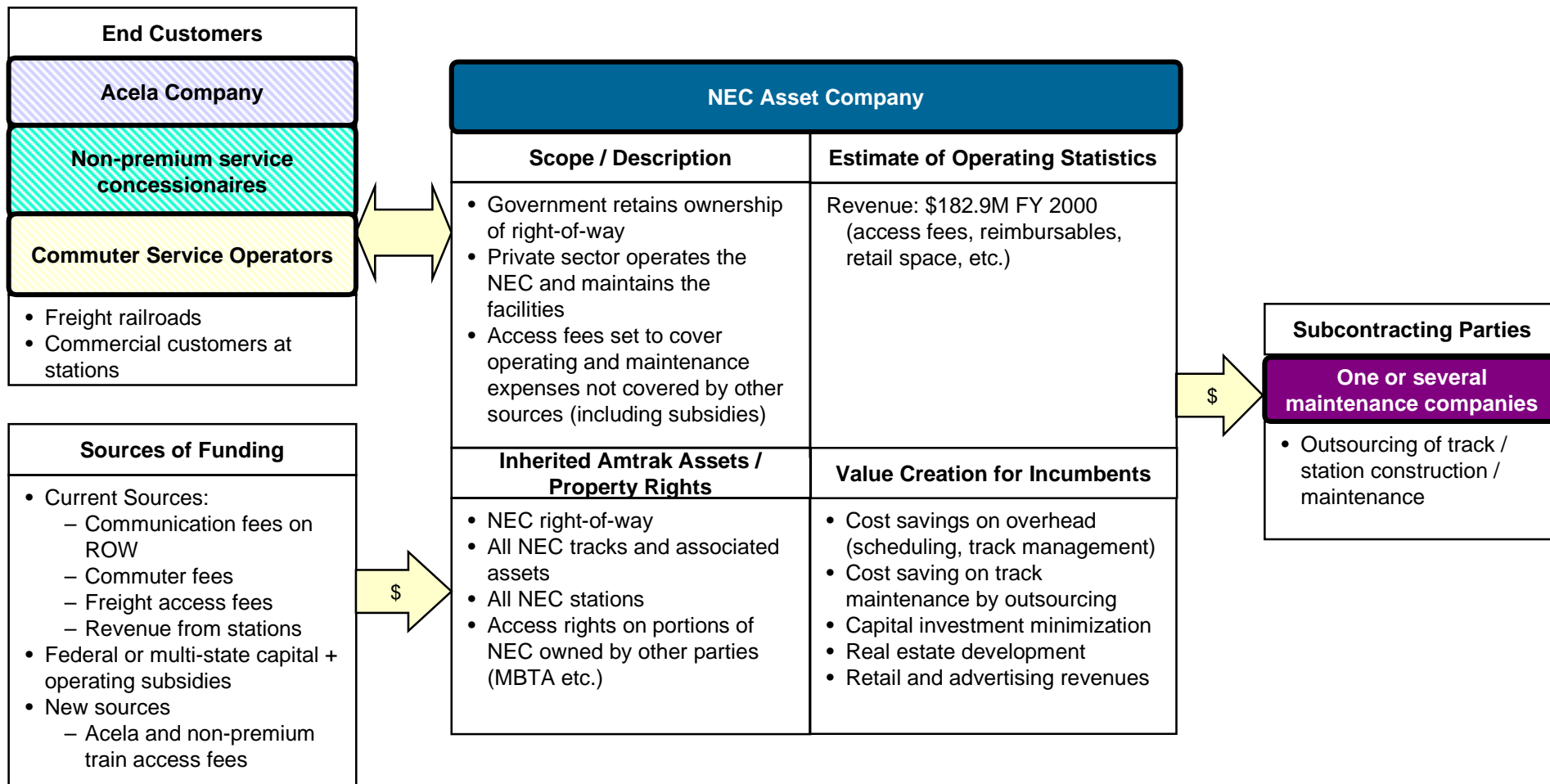


Notes: Financial estimates do not include interest, depreciation or capital improvements. Operating statistics for FY 2000 are based on pro-rated estimates. Value creation estimate is calculated as NPV of 10-year operating cash flows before interest and depreciation and assumes availability of federal subsidies for the restructuring period of FY1-FY3. FY 2001 data includes financials for Acela Regional service.

Source: Amtrak FY2000 Annual Report; Amtrak Reform Council, February 2002

Blueprint for private operation of passenger rail service

A government owned, but privately managed, NEC Asset Company would own the NEC. It would set and collect access fees for services that operate over the NEC. It would subcontract operation and infrastructure maintenance.

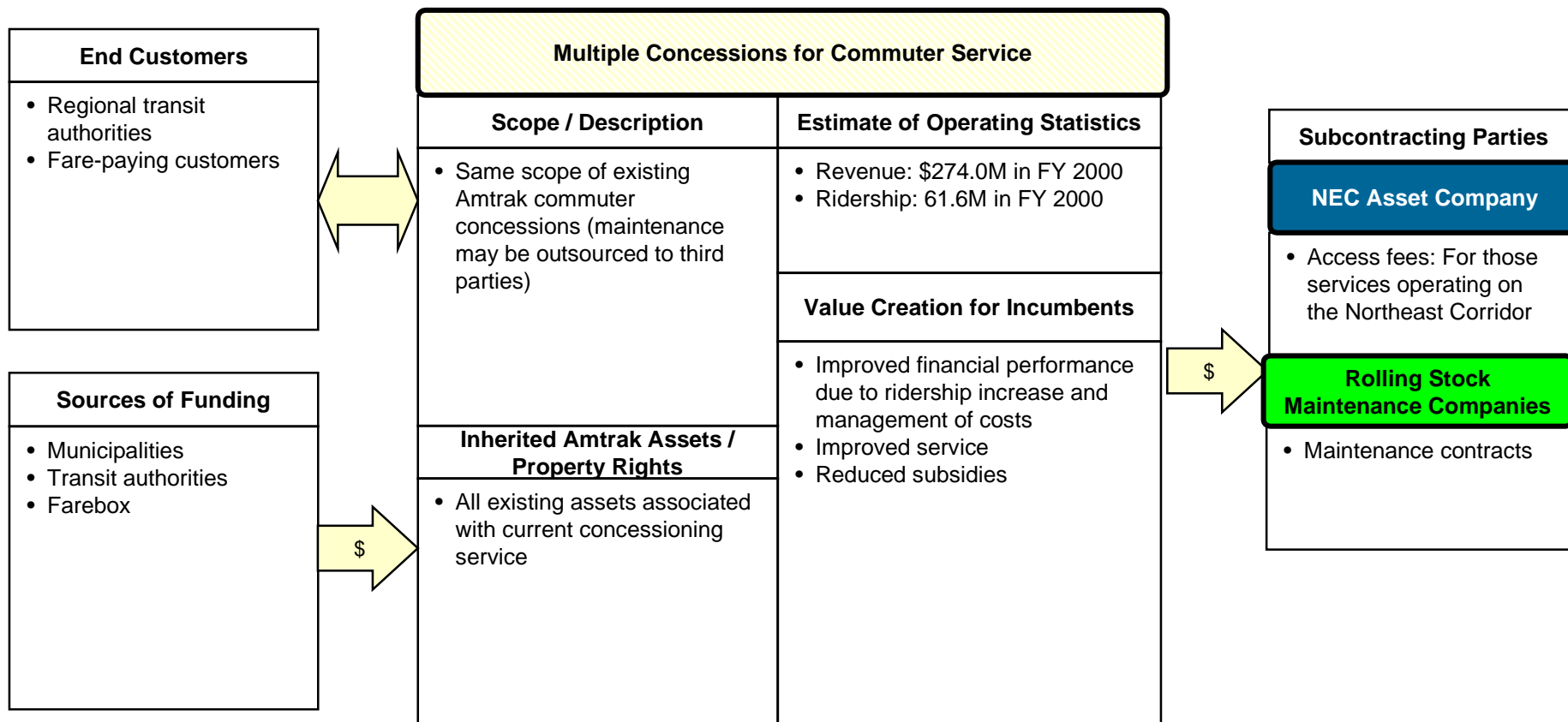


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Source: Amtrak FY2000 Annual Report; Amtrak Reform Council, February 2002

Blueprint for private operation of passenger rail service

State and local authorities should award current Amtrak commuter service contracts in the NEC and elsewhere to new contractors.

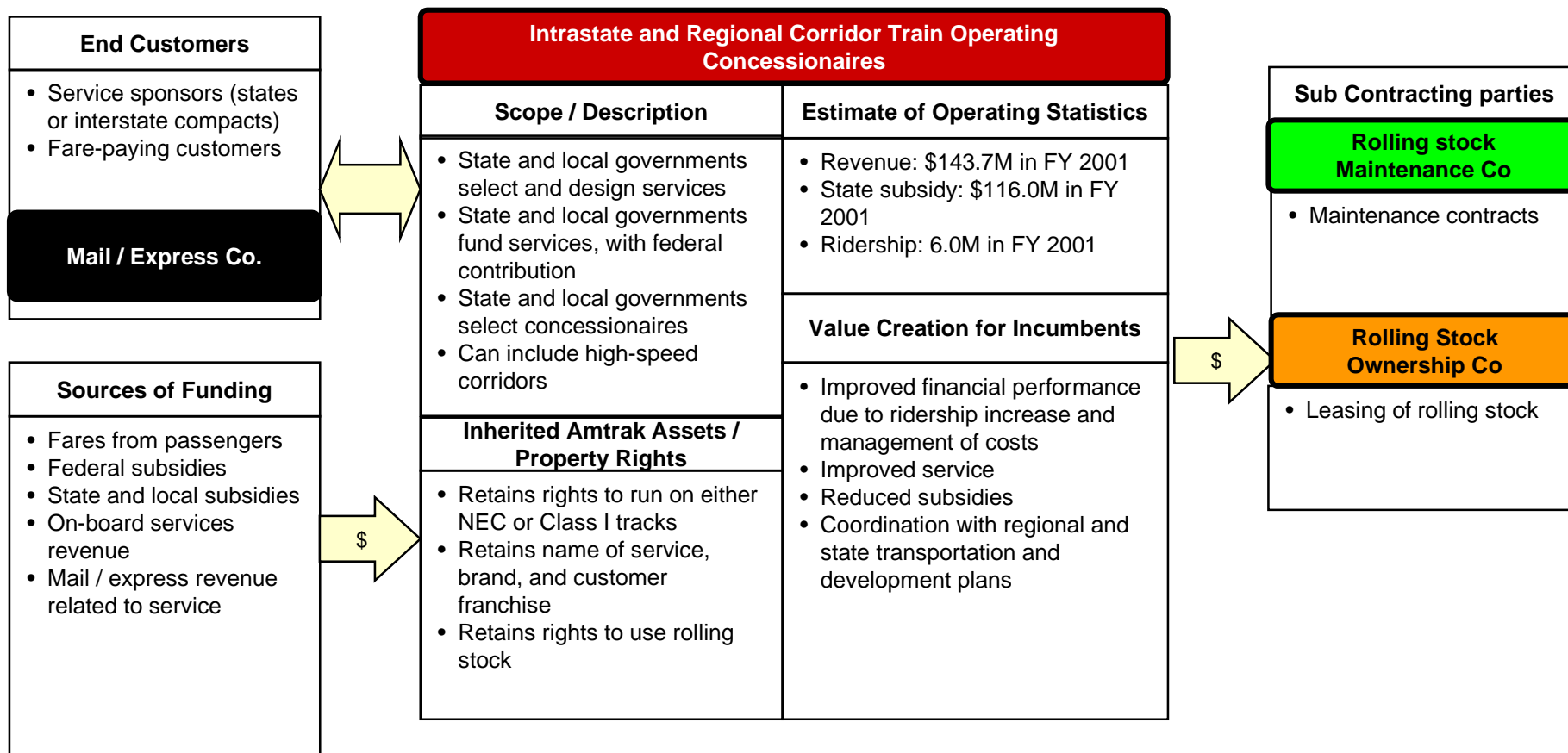


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Source: Amtrak FY2000 Annual Report; Amtrak Reform Council, February 2002

Blueprint for private operation of passenger rail service

Intrastate intercity services should be franchised by individual states or interstate compacts.

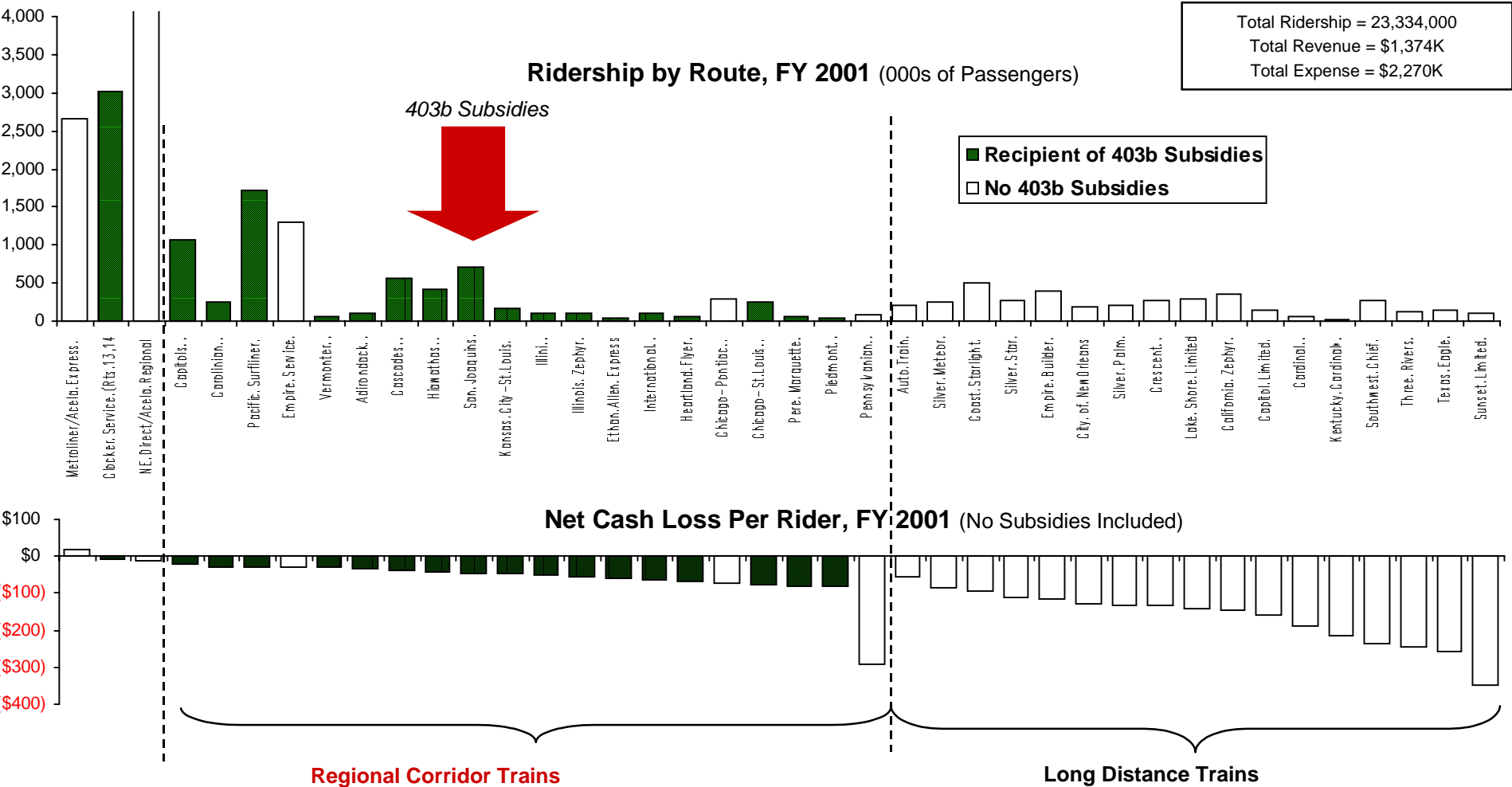


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Source: Amtrak FY2000 Annual Report; Amtrak Reform Council, February 2002

Blueprint for private operation of passenger rail service

Intrastate and other regional corridor services currently require a wide range of subsidies. All now lose money, although some losses are small. Private operation should result in substantial reduction of required subsidies.



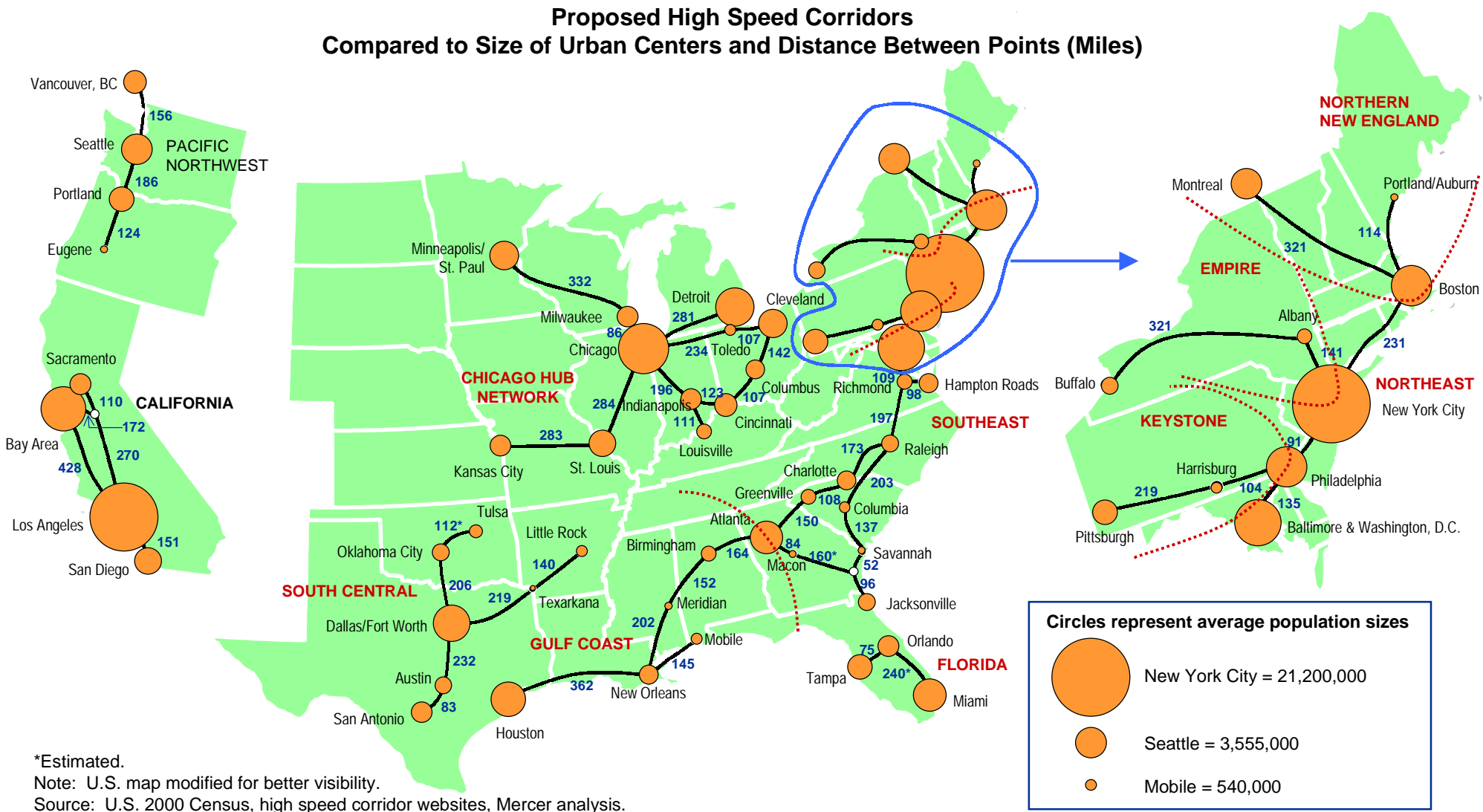
403b Act = The law that created Amtrak in 1971 provided for trains beyond a national network if a state covered a portion of the operating deficit. Illinois was one of the first states to take advantage of this provision and supports so-called Section 403(b) trains on four routes radiating from Chicago's Union Station.

Source: Amtrak Reform Council, Mercer analysis.

Note: Adapted from information provided by Amtrak to the Amtrak Reform Council.

Blueprint for private operation of passenger rail service

In addition to existing services, proposed high speed corridors would be developed under concession agreements, which could include DBOT public-private financing provisions.



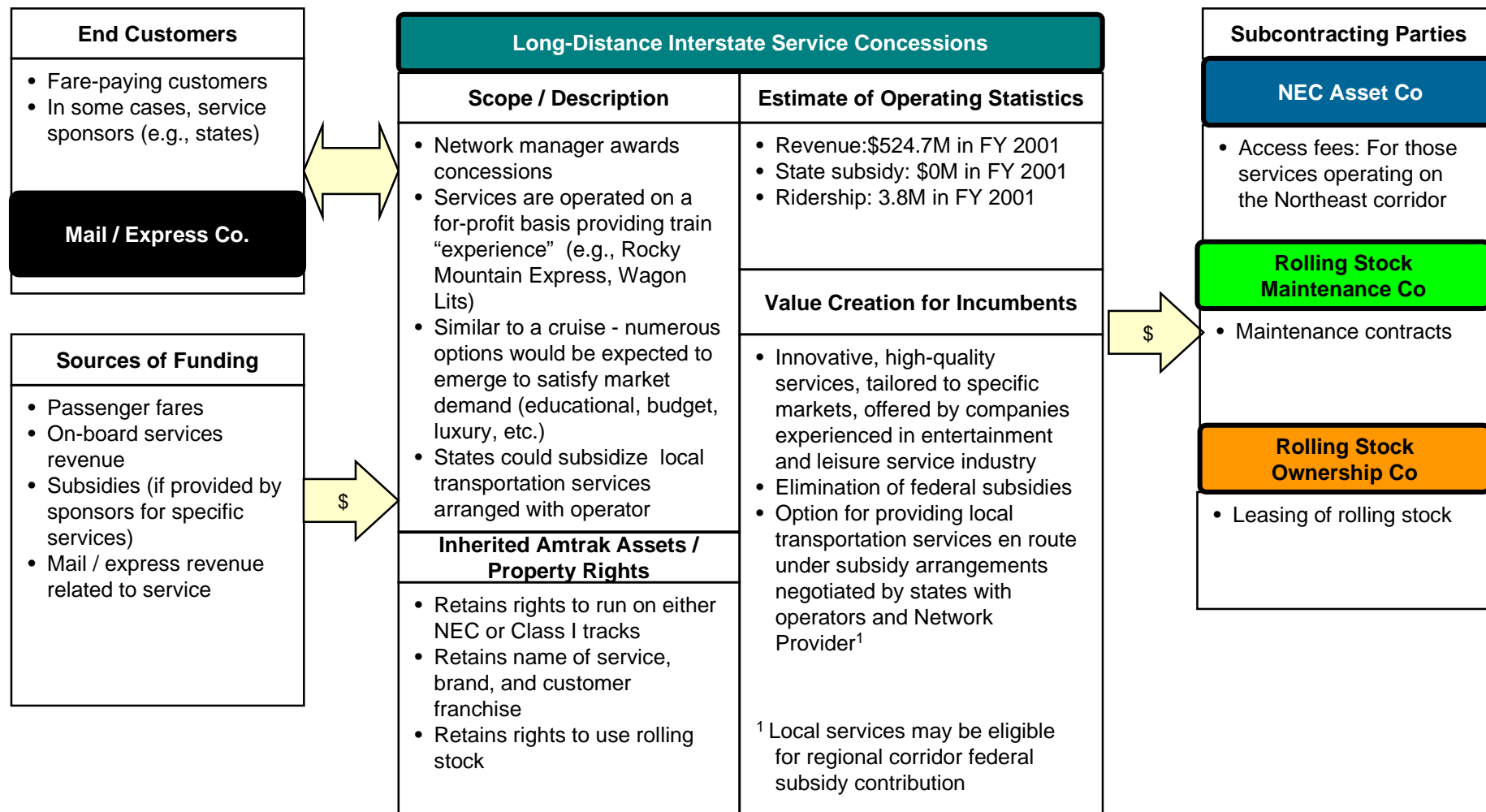
*Estimated.

Note: U.S. map modified for better visibility.

Source: U.S. 2000 Census, high speed corridor websites, Mercer analysis.

Blueprint for private operation of passenger rail service

Interstate intercity (long distance) services should be franchised by the Network Manager without federal subsidies to private operators.

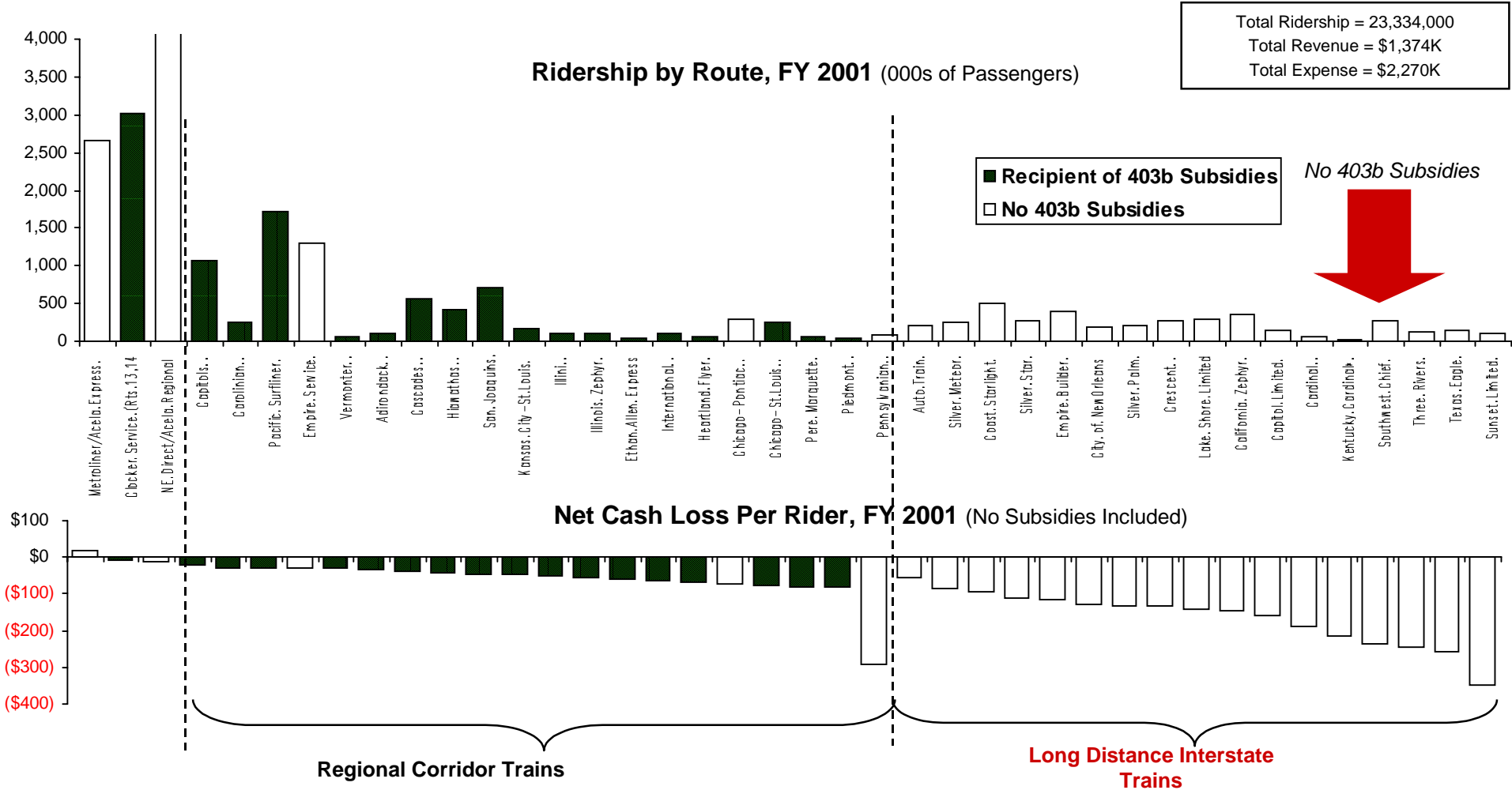


Notes: Financial estimates do not include interest, depreciation or capital improvements. Operating statistics for FY 2000 are based on pro-rated estimates. Value creation estimate is calculated as NPV of 10-year operating cash flows before interest and depreciation and assumes availability of federal subsidies for the restructuring period of FY1-FY3.

Source: Amtrak FY2000 Annual Report; Amtrak Reform Council, February 2002

Blueprint for private operation of passenger rail service

Long-distance interstate services generally generate much larger losses than regional corridor trains. They can be restructured as for-profit “experience” trains.



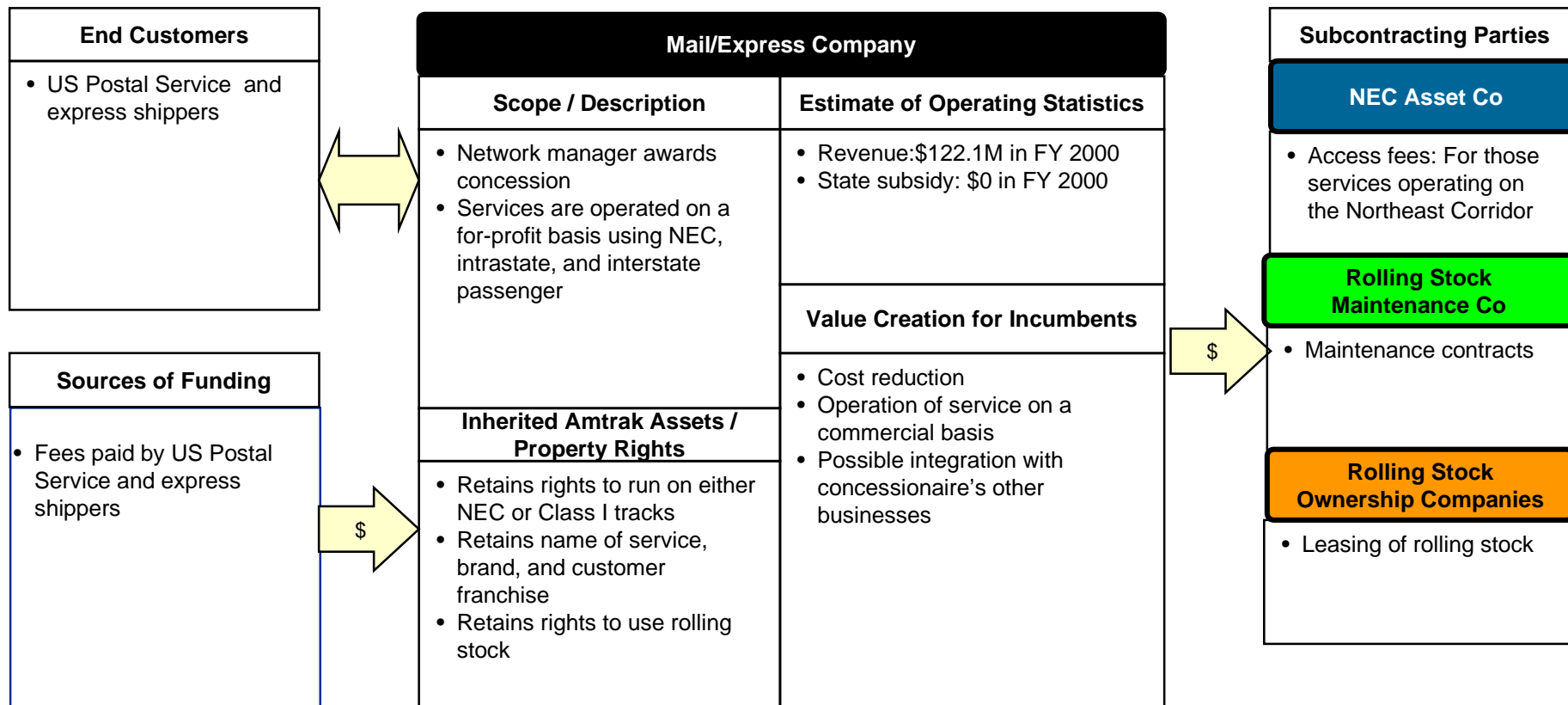
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Source: Amtrak Reform Council, Mercer Analysis.

Note: Adapted from information provided by Amtrak to the Amtrak Reform Council.

Blueprint for private operation of passenger rail service

Amtrak's mail and express services should be concessioned to a private operator.



Notes: Financial estimates do not include interest, depreciation or capital improvements. Operating statistics for FY 2000 are based on pro-rated estimates. Value creation estimate is calculated as NPV of 10-year operating cash flows before interest and depreciation and assumes availability of federal subsidies for the restructuring period of FY1-FY3.

Source: Amtrak FY2000 Annual Report; Amtrak Reform Council, February 2002

Blueprint for private operation of passenger rail service

Unbundling of Amtrak's other assets would create numerous additional opportunities for private investment.

	Rolling Stock Maintenance Companies	Equipment Leasing Companies	Track Maintenance Companies	Real Estate Managers/Station Operators
Scope / Description	<ul style="list-style-type: none">• Serves all train operators	<ul style="list-style-type: none">• Rolling stock ownership and lease management (except Acela trains)	<ul style="list-style-type: none">• Maintenance and upgrading of NEC and non-NEC tracks / signals and stations	
Inherited Amtrak Assets / Property Rights	<ul style="list-style-type: none">• May or may not acquire existing maintenance facilities and related parts inventory	<ul style="list-style-type: none">• Acquires ownership of rolling stock (except Acela trains)	<ul style="list-style-type: none">• Does not own track or operating rights	
Value Creation for Incumbents	<ul style="list-style-type: none">• Lower maintenance costs• Better parts inventory• Better availability/reliability• Revenue from penalties	<ul style="list-style-type: none">• Lower asset ownership costs• Lower overhead• Better asset utilization	<ul style="list-style-type: none">• Lower maintenance costs• Lower overhead• Potential bidding for DBOM¹/operating contracts	

¹Design, build, operate, maintain

Summary

While introducing private operation to passenger railroads will require substantial short-term efforts, it will create many long-term benefits.

Benefits

- Introduction of competition and innovation in the U.S. passenger rail marketplace
- Introduction of world-class, “best-in-front” rail operators from U.S., Europe, and Asia
 - Passenger operations
 - Equipment maintenance
 - Infrastructure maintenance
 - Real estate management
 - Etc.
- Potential for introduction of new technologies
- Better service that is more sensitive and tailored to customers and the needs of various stakeholders
- Substantial cost savings
- Rationalization of federal subsidy process
- Market will direct funds to areas of greatest public and private return

Disadvantages

- Time and effort required for transition process
- Possibility that some services may be too expensive to continue
- Possibility of labor displacement if Amtrak employees are not hired by new operators

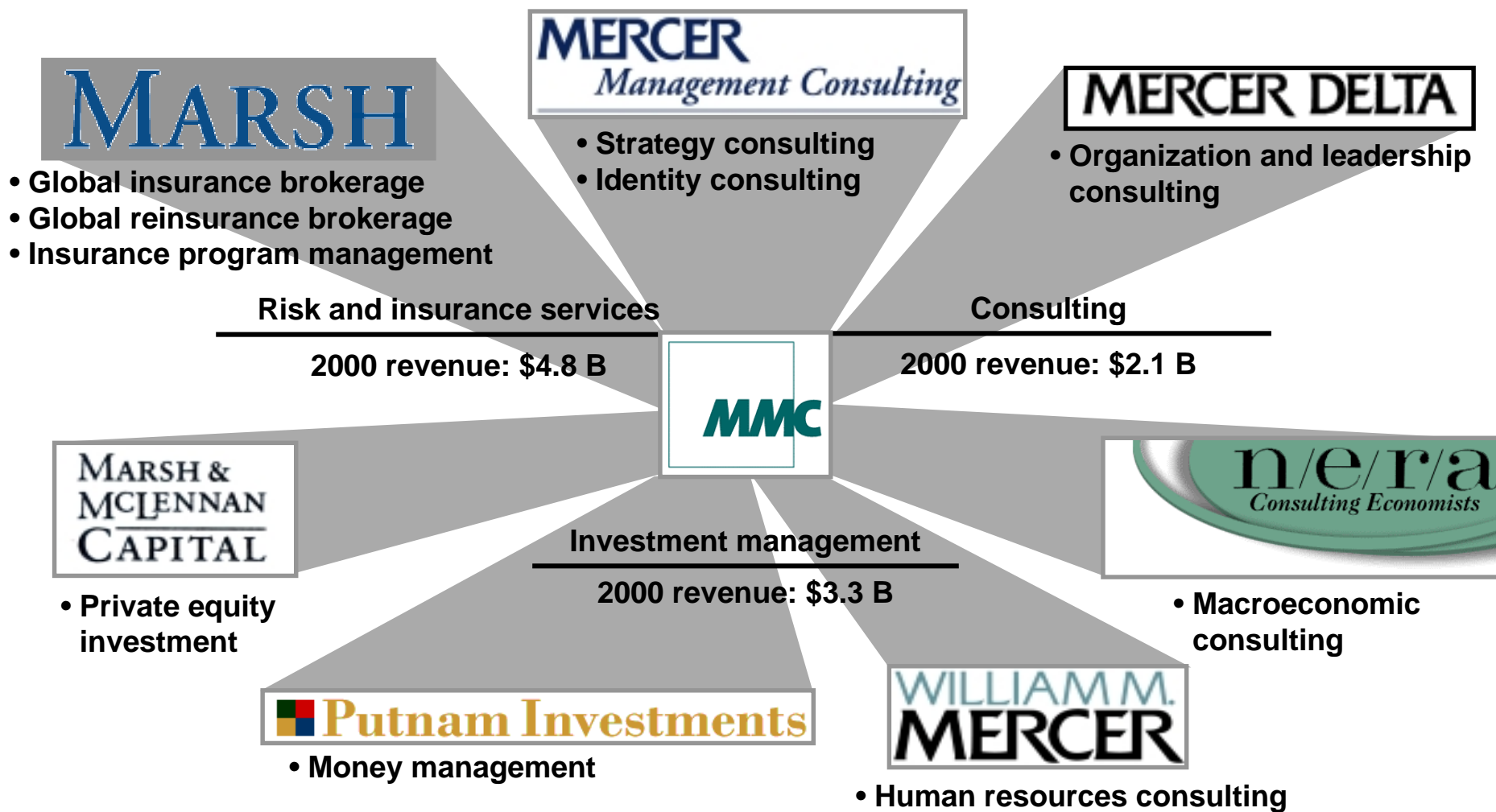
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- II. Approaches to developing public/private transaction opportunities
- III. Possible paths forward
- IV. Trends in European railway liberalization
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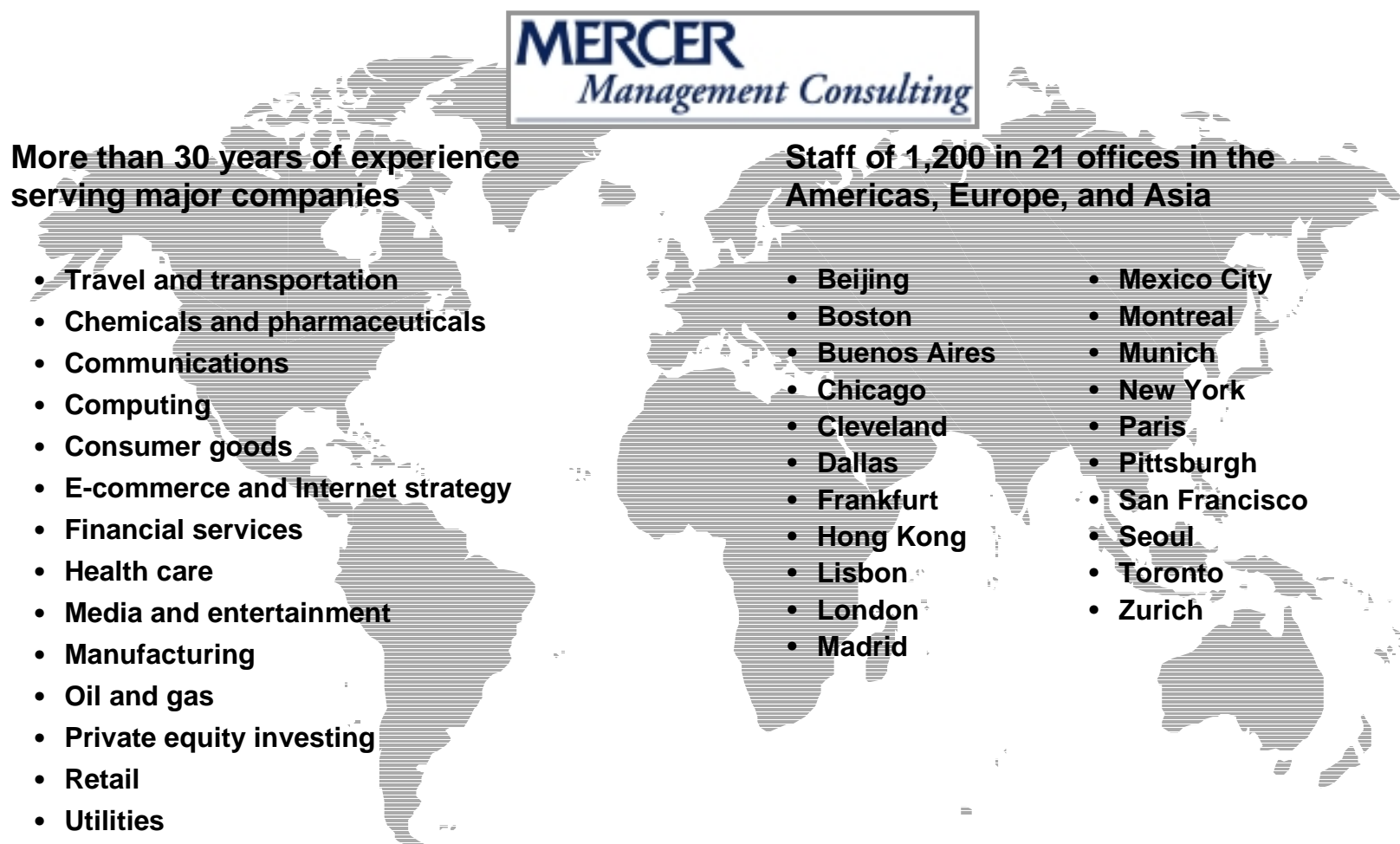
Appendixes:

- • Qualifications of Mercer Management Consulting, Inc.
- Railway privatization case studies
 - Argentina
 - Mexico
 - Japan

Mercer Management Consulting is a unit of Marsh & McLennan Companies (MMC) – a \$10 billion enterprise serving the financial, risk, and management advisory needs of leading global clients.



Mercer Management is a leading international strategy and general management consulting firm with deep industry and functional expertise.



MERCER
Management Consulting

More than 30 years of experience serving major companies

- Travel and transportation
- Chemicals and pharmaceuticals
- Communications
- Computing
- Consumer goods
- E-commerce and Internet strategy
- Financial services
- Health care
- Media and entertainment
- Manufacturing
- Oil and gas
- Private equity investing
- Retail
- Utilities

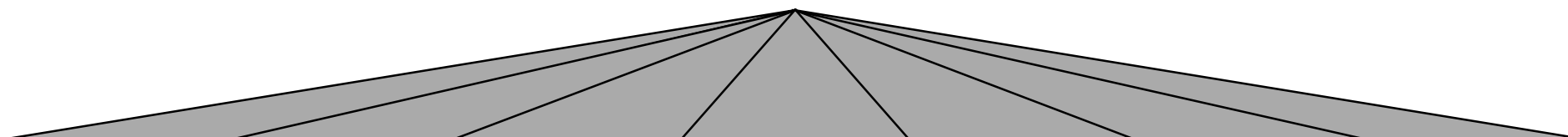
Staff of 1,200 in 21 offices in the Americas, Europe, and Asia

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- London
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- Paris
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- Seoul
- Toronto
- Zurich

Mercer's Travel and Transportation Group

Mercer Management combines top-tier general management consulting with the specialized expertise of the world's largest general management consultancy dedicated to the transportation industry.

Travel and Transportation Group

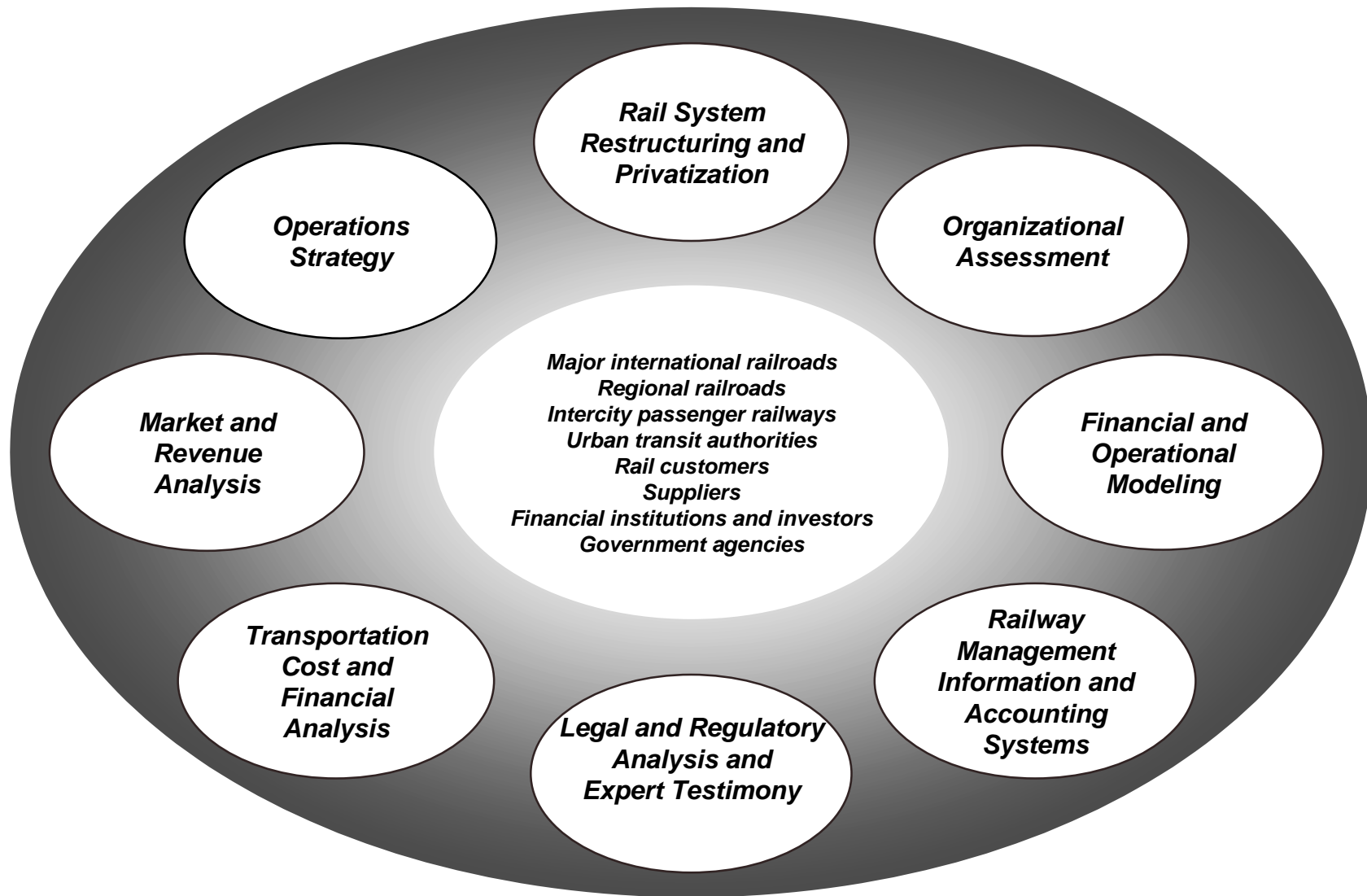


<i>Rail</i>	<i>Motor Carrier</i>	<i>Maritime</i>	<i>Urban Transportation</i>	<i>Air Transport</i>	<i>Freight Management</i>	<i>Travel & Leisure</i>
Major International Railroads Regional Railroads Intercity Passenger Railways Rail Customers Equipment Suppliers Financial Institutions and Investors Government Agencies	LTL and TL Carriers Bulk Carriers Dedicated Contract Carriers Private Fleets Equipment Lessors Equipment Suppliers Financial Institutions and Investors	Container Lines Bulk Carriers Freight Forwarders Barge Lines Shipyards Port Authorities Customs Brokers Government Agencies	Commuter Authorities Transit Authorities Equipment Suppliers Government Agencies Bus and Motorcoach Service Providers	Airplanes – Passenger/Cargo Air Parcel Carriers Airports Service Providers Aerospace Manufacturers Financial Institutions Governments and Agencies	Freight Forwarders Customs Brokers Contract Logistics	Hotels Cruise Lines Travel Agencies Car Rentals Destination Services

Supply Chain • Internet Strategy • Manufacturing • Oil & Gas • Energy • Private Equity

Complementary Mercer Practice Areas

Mercer Management offers a comprehensive range of rail-related services.



Mercer Management has extensive experience in market analysis and new business design for both railway service providers and rail suppliers internationally.

	Europe	United States and Canada	Latin America	Africa, Asia, Pacific, Middle East
Rail System Restructuring, Commercialization, and Privatization	<ul style="list-style-type: none"> British Rail and successor companies Czech Rail (CD) Deutsche Bahn ÖBB (Austria) Polish State Railways (PKP) Russian Railways SNCF 	<ul style="list-style-type: none"> Amtrak Norfolk Southern CS First Boston CSX NICTD Regional Transportation Authority (Chicago) Southern Pacific 	<ul style="list-style-type: none"> Confidential international banking organization Ferrocarriles Argentinos Government of Argentina, Columbia, Guatemala, Mexico, Uruguay (separate projects) Private Brazilian commuter franchisees 	<ul style="list-style-type: none"> New Zealand Railways Private Investor (Indonesia) Private Investor (Malaysia) Spoornet (South Africa) State Rail Authority (New South Wales) Government of Hong Kong Government of Western Australia
Financial and Operational Modeling	<ul style="list-style-type: none"> British Rail EC/European Union London Underground ÖBB (Austria) Polish State Railways (PKP) 	<ul style="list-style-type: none"> Association of American Railroads BNSF Canadian National CSX Goldman Sachs Long Island Rail Road Morgan Stanley 	<ul style="list-style-type: none"> Confidential international banking organization FEPSA (Argentina) Ferrocarriles Argentinos Government of Mexico Government of Uruguay Government of Peru Government of Guatemala 	<ul style="list-style-type: none"> American President Lines National Rail Corp. (Australia) New Zealand Railways Queensland Rail State Rail Authority (New South Wales) Kowloon-Canton Railway Corp. (Hong Kong)
Transportation Cost and Financial Analysis	<ul style="list-style-type: none"> Hungarian State Railway (MAV) Major international equipment suppliers Polish State Railways (PKP) SNCF 	<ul style="list-style-type: none"> BNSF CSX GE Railcar Southern Pacific 	<ul style="list-style-type: none"> Ferrocarriles Argentinos Government of Chile Major industrial railway Government of Mexico Government of Uruguay Government of Peru Government of Guatemala 	<ul style="list-style-type: none"> Australian National Lines CITI-Rail Sydney National Rail Corp. (Australia) Spoornet (South Africa) Victorian PTC
Market and Revenue Analysis	<ul style="list-style-type: none"> Hungarian State Railway (MAV) Major int'l leasing corporation Major int'l railway equipment corporation CGEA Transport 	<ul style="list-style-type: none"> EMD BNSF GATX GE Locomotive Union Pacific CGEA Transport 	<ul style="list-style-type: none"> Ferrocarriles Argentinos Int'l locomotive manufacturer Major Brazilian corporation Supervia (Brazil) Government of Mexico Government of Uruguay Government of Peru Government of Guatemala 	<ul style="list-style-type: none"> New Zealand Railways Spoornet (South Africa) MTRC (Hong Kong)
Operations Strategy	<ul style="list-style-type: none"> British Rail FEN Mechanica Polish State Railways (PKP) Russian Railways SNCF 	<ul style="list-style-type: none"> BNSF GATX GE Locomotive Long Island Rail Road Southern Pacific 	<ul style="list-style-type: none"> Government of Mexico Major international financial institutions Government of Peru Government of Guatemala FSA (Brazil) MRS Logistics (Brazil) 	<ul style="list-style-type: none"> State Rail Authority (New South Wales) V-Line Railway (Australia)
Organizational Assessment	<ul style="list-style-type: none"> CSX/Sea-Land Hungarian State Railway (MAV) London Underground Russian Railways 	<ul style="list-style-type: none"> Amtrak BNSF Grand Trunk Western New York Port Authority 	<ul style="list-style-type: none"> FEPSA (Argentina) Government of Mexico Government of Uruguay 	<ul style="list-style-type: none"> CITI-Rail Sydney State Rail Authority (New South Wales)
Railway Management Information and Accounting Systems	<ul style="list-style-type: none"> London Railway Polish State Railways (PKP) Russian Railways 	<ul style="list-style-type: none"> CNW-UP UP / SP Southern Pacific Canadian National Canadian Pacific CSX 	<ul style="list-style-type: none"> FEPSA (Argentina) FSA (Brazil) 	<ul style="list-style-type: none"> National Rail Corp. (Australia) National Railways of Zimbabwe New Zealand Railways State Rail Authority (New South Wales)
Legal and Regulatory Analysis and Expert Testimony	<ul style="list-style-type: none"> Hungarian State Railway (MAV) Polish State Railways (PKP) Russian Railways 	<ul style="list-style-type: none"> BNSF CSX GTW Southern Pacific Wisconsin Central 	<ul style="list-style-type: none"> Government of Argentina Government of Mexico Major government-owned railway 	<ul style="list-style-type: none"> State Rail Authority (New South Wales) Major Australian industrial company

Key: ● More than 10 engagements by Mercer staff over last five years ◐ 6 to 10 engagements by Mercer staff over last five years ○ 1 to 5 engagements by Mercer staff over last five years

Mercer case experience

Mercer has wide experience working in the UK rail industry...

Passenger	Trainload	Intermodal	Privatization	Other
<ul style="list-style-type: none">• Regional railways strategy review• Virgin defence• InterCity service modifications• Franchising case studies• Design of competitive regime	<ul style="list-style-type: none">• Portfolio rationalization strategy• Identification of efficiency reserves and process re-engineering	<ul style="list-style-type: none">• Confirmation of Speedlink closure• Freightliner restructuring plan• Channel Tunnel strategy	<ul style="list-style-type: none">• Detailed viability reassessment• Cost of extraction• Number and structure of further initiatives• Ability to reconcile sale and competition• Support of Freightliner privatization process• Access charging issues	<ul style="list-style-type: none">• Potential for Irish combined transport via Channel Tunnel



Approaching 300 man-months of cumulative experience

Mercer case experience

... and elsewhere in the world.

Poland/Czech/Hungary

- Restructuring/commercialization, including analysis of network profitability, competitive scenarios, etc

Mexico/Argentina/ South Africa

- Restructuring, concessioning, privatization, public policy and competitive issues
- Performance improvement (S. Africa and Argentina Commuter rail)

MTRC (Hong Kong)

- Ridership improvement on airport service
- Strategy development prior to IPO

New Rail Operators/ Rolling Stock Companies

- Market mapping/entry strategy in rail, bus
- International leasing strategy

Mercer case experience

...and an in-depth experience of rail markets, economics, competition and restructuring in Europe and the United States ...

Amtrak

- Turnaround strategy (commercial, financial)
- Product re-design for North-East corridor

US Class 1 Railroads

- Network strategy, commercial strategy pricing and customer relationship management
- Strategy for alliances and mergers

Deutsche Bahn

- Strategy to compete in concessioning of regional rail
- Business re-design for wagonload network

SNCF

- Strategy review for TGV Grandes Lignes
- Customer segmentation strategy

Eurostar

- Product/service improvement strategy
- Evaluation of feasibility of a Eurostar service to Heathrow

SBB / OBB

- Production strategy for international hub/intermodal
- Restructuring of maintenance; growth strategy for infrastructure maintenance

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Situation Leading to Privatization

- All freight, passenger, and commuter services provided by Government-owned Ferrocarriles Argentinos (FA)
- Severe under-investment in the rail system
- Inefficiency and poor management
- Falling demand
- Poor safety and reliability
- Subsidies reaching \$1.3B versus revenues of \$500M
- Distressed economy: Hyperinflation and high fiscal debt

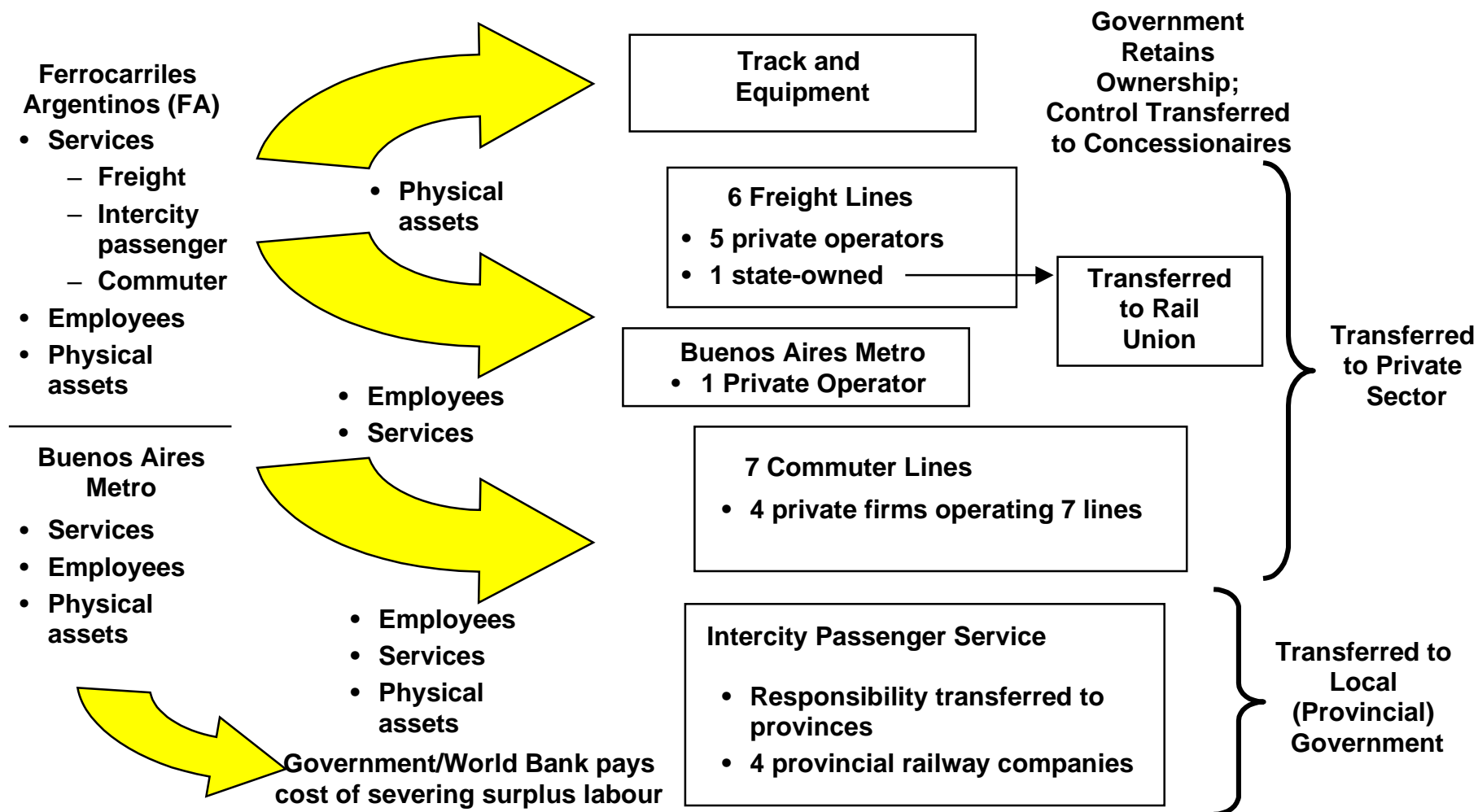
Objectives:

- Reduce subsidies
- Improve service and operational performance
- Attract international expertise
- Retain Government control of physical assets

Approach:

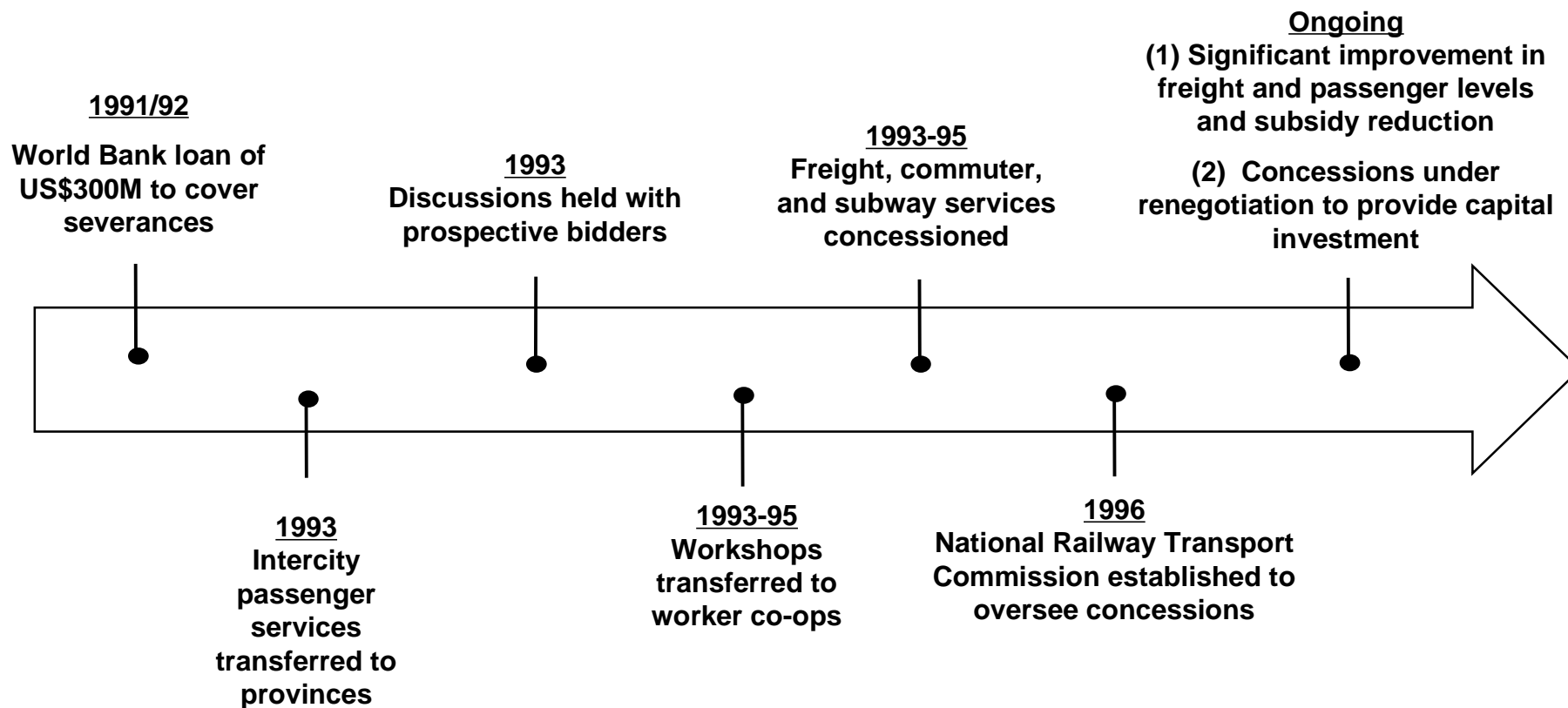
- Geographically distinct, vertically integrated operating concessions
 - 6 freight, 8 passenger
- Government retains ultimate ownership of infrastructure and equipment
 - Concessionaires control assets
 - Specified re-investment programme
- Government/World Bank funded labor severance programme

Privatization Structure



Argentina

Timeline



Terms: *Freight*

30-year concessions plus 10-year renewal option

Maximum freight rates

Access fees for intercity passenger operations

No mandated access for competing freight operations

All investments funded by concessionaires

Government retained 16% share; employees given 4% share

Terms: *Commuter/Metro*

10-year concessions for commuter; 20-year for metro

Unlimited renewals if Government and concessionaires agree

Concessionaires not required to accept employees from FA

Fare cap tied to inflation; Government has authority to change

Minimum service and performance levels contractually defined

Government funds pre-specified infrastructure and rolling stock investment

Any additional investments funded by concessionaires

Results

Successes

- Subsidies eliminated for freight and intercity passenger
- Operating subsidies for commuter/metro services reduced from \$300M to \$50M
- Freight growth (1990-2000):
 - Volume +59%
 - Tons/employee +830%
- Passenger growth (1993-2000):
 - Commuter passengers +125%
 - Passengers/employee +253%
- Attractive severance reduced employment by 82% with minimal disruption
- Responsibility for track investment and operations kept together, eliminating conflicts

Challenges

- Planning did not fully appreciate competitive response by truckers
 - Good news - Freight rates are well below maximum allowed
 - Bad news - Some freight franchises struggling financially
- Unrealistic investment requirements:
 - Some freight investment requirements set too high to be commercially sustainable
 - Metro concession renegotiated to allow higher tariffs in return for increased investment and longer concession period
 - Commuter concessions renegotiating to provide more investment in return for longer concession period

Argentina

Results: *Labor*

	State-owned 1990	Concessionaires 2000	Percent Change
Freight			
Employees (000)	31.4	5.3	-83%
Tonnage (millions)	11.1	17.6	+59%
Tons per employee	353	3,292	+830%
Employee per km of network	1.15	0.24	-79%
	State-owned 1993	Concessionaires 2000	Percent Change
Commuter Passengers			
Employees (000)	12.0	7.6	-37%
Paying passengers (millions)	212	476	+125%
Passengers per employee	17,670	62,300	+253%
Employee per km of network	15.8	10.1	-36%

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- Railway privatization case studies
 - Argentina
 - – Mexico
 - Japan

Situation Leading to Privatization

- Government-owned Ferrocarriles Nacionales de Mexico (FNM) provided all freight and passenger services
- High subsidies, inefficiency, poor service quality
 - Operating losses and government subsidies > \$125M
- Limited internal restructuring (1992-94) fell short of required results
- Peso devaluation/economic crisis forced newly elected Government to turn to privatization
 - Also need to make transport competitive to take advantage of NAFTA

Objectives:

Maximize funds for government finances

Reduce subsidies

Introduce private sector efficiencies/service responsiveness/investment

Get railway off the government's hands

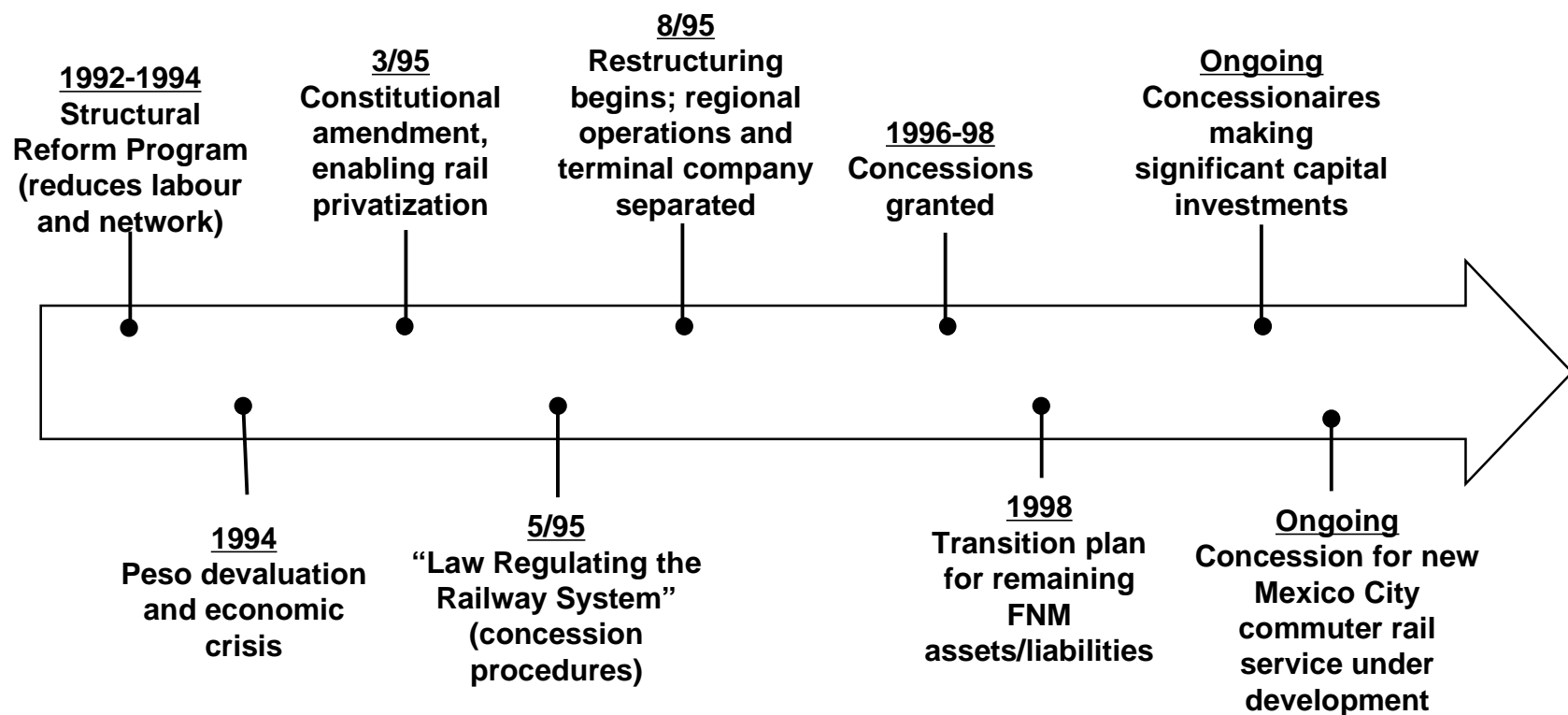
Approach:

Three vertically integrated 50 year freight concessions

– Five light density concessions

Government retains ownership of infrastructure

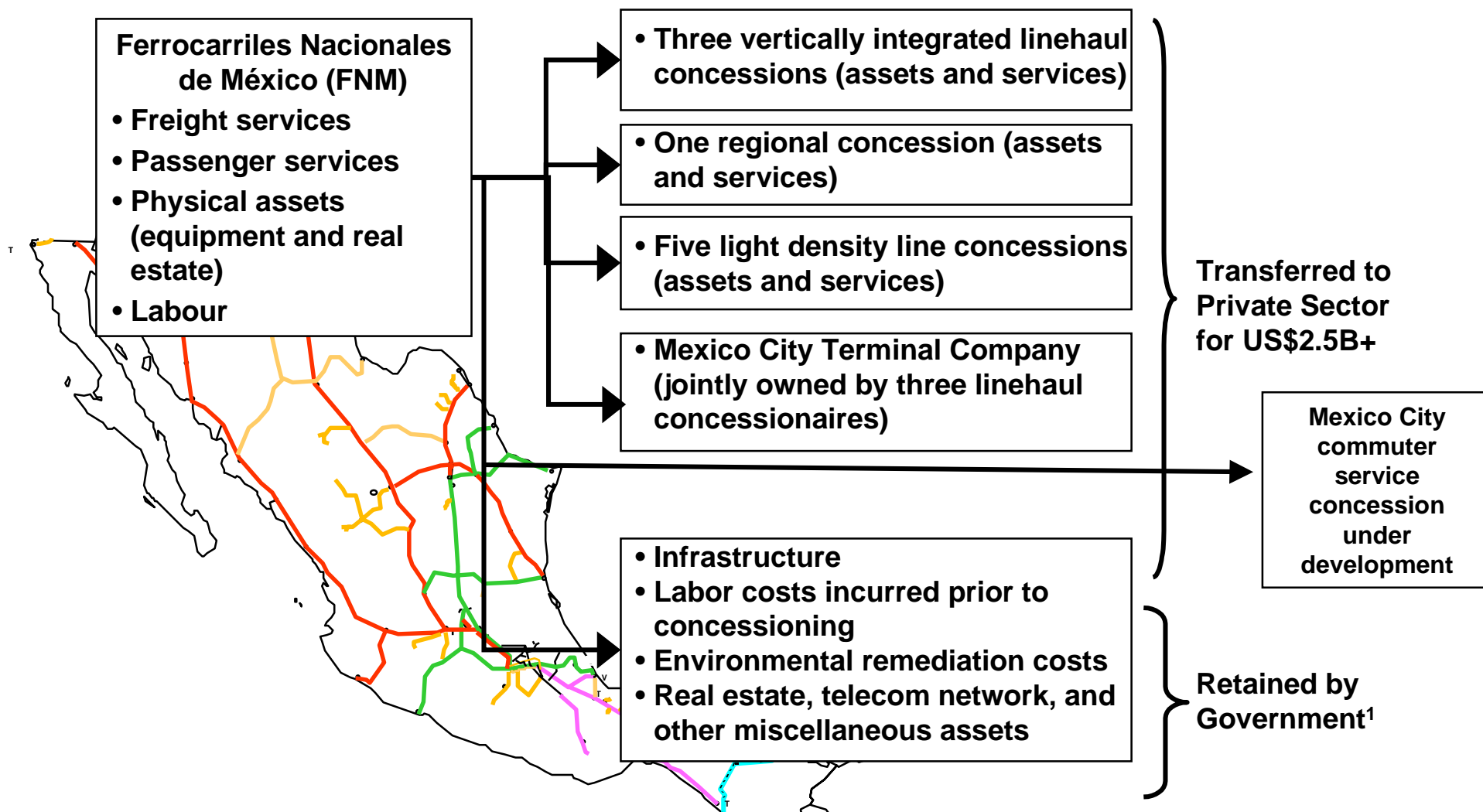
Timeline



Key features of the privatization process

Action	Goal
<ul style="list-style-type: none">• Three “shadow” railroads formed internally	<ul style="list-style-type: none">• Adopt commercial principles to prepare for privatization
<ul style="list-style-type: none">• Detailed legislation/regulation in place	<ul style="list-style-type: none">• Give bidders a firm legal framework
<ul style="list-style-type: none">• FNM CEO personally supervised labour relationships	<ul style="list-style-type: none">• Address labor concerns early• Reduce political issues and ease transition
<ul style="list-style-type: none">• Concession structure defined based on input from potential bidders	<ul style="list-style-type: none">• Generate high quality bids and maximize sale proceeds• Structure concessions to be attractive to bidders• Ensure proposed industry structure will work
<ul style="list-style-type: none">• Bidding process closely managed<ul style="list-style-type: none">– Concessions phased– Contact/negotiations with bidders	<ul style="list-style-type: none">• Maximize sale proceeds• Reduce bidder uncertainty

Privatization Structure



¹Remaining assets may be sold or concessioned.

Terms of freight concessions

Minimum 51% ownership by Mexican companies required

50-year concessions with option for 50-year renewal

Equipment included in concessions

Government retains infrastructure

Minimal Government regulation and control

Results

Successes

- | |
|--|
| <ul style="list-style-type: none">• Government received more than \$2.5 billion in cash• Freight subsidies of more than \$700MM per year eliminated• “Rail Renaissance”<ul style="list-style-type: none">– Freight traffic grew by 49% (1995-2000)– International freight traffic grew by 77%• Aggressive five-year private investment programs (US\$ 1.3B) to grow traffic• Proactive management of labour issues, fair buy-out provisions and higher wages for remaining workers led to strong co-operation and buy-in by labour unions• Responsibility for track investment and operations kept together, eliminating conflicts |
|--|

Challenges

- | |
|---|
| <ul style="list-style-type: none">• Failure to fully develop institutional infrastructure for inter-railroad cooperation before privatization has led to conflicts between railroads• Some shippers have been slow to change their government-operation era perceptions of railroad service• First bidding ended in failure when bids did not meet the government’s minimum target<ul style="list-style-type: none">– Good news - Government strongly signaled that it would not accept less than fair value– Bad news - Temporary setback at the beginning of the process |
|---|

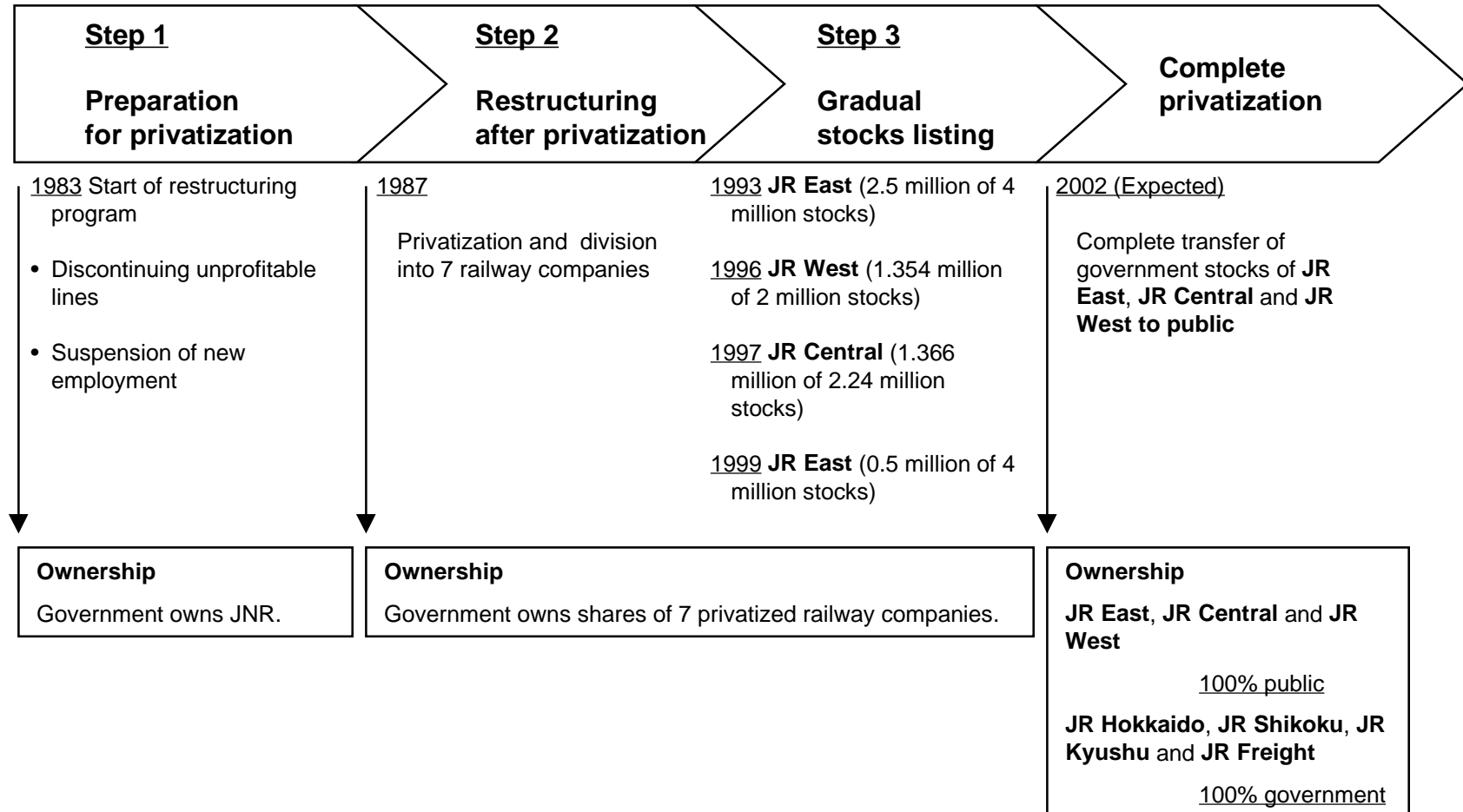
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- I. Operating cost improvements from privatization
- II. Approaches to developing public/private transaction opportunities
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- IV. Trends in European railway liberalization
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The privatization of JNR was undertaken in three steps.



JNR undertook significant restructuring efforts in 1981-1986 to prepare for the privatization of rail.

Labor Cuts	Asset Upgrading and Capital Conservation	Restructuring of Freight Operations
<ul style="list-style-type: none">• JNR had suspended the new employment since 1983.• To reduce the labor force, JNR carried out<ul style="list-style-type: none">– Improvement of work method (cut of administration staff, raising efficiency of train crew– Modernization of facility (centralized train control, automatic signaling system, ticket vending machine, automatic ticket gate, maintenance facility, etc),– Change of service quality (making station unattended, putting freight stations together, etc)– Outsourcing (station work, rolling stock maintenance work, etc).• JNR cut over 200 thousand employees.	<ul style="list-style-type: none">• 83 rural lines (3,157.2km) were abandoned by FY1989.• JNR replaced old locomotives and passenger cars with modern diesel cars.• JNR suspended construction of previously approved new lines.	<ul style="list-style-type: none">• JNR promoted 'through train service' which connect between 2 stations directly.• Excess freight cars were abandoned.

JNR was divided into 6 regional passenger railway companies and 1 nationwide freight company.

JR West

- 5,325 route km
- 51,538 employees
- 45.8 billion passenger-km
- Sanyo Shinkansen

JR Kyushu

- 2,406 route km
- 14,589 employees
- 7.7 billion passenger-km
- Conventional lines only

JR Shikoku

- 880 route km
- 4,455 employees
- 1.7 billion passenger-km
- Conventional lines only

JR Freight

- 10,010 route km
- 12,005 employees
- 20.0 billion ton-km
- Freight train operator

JR Hokkaido

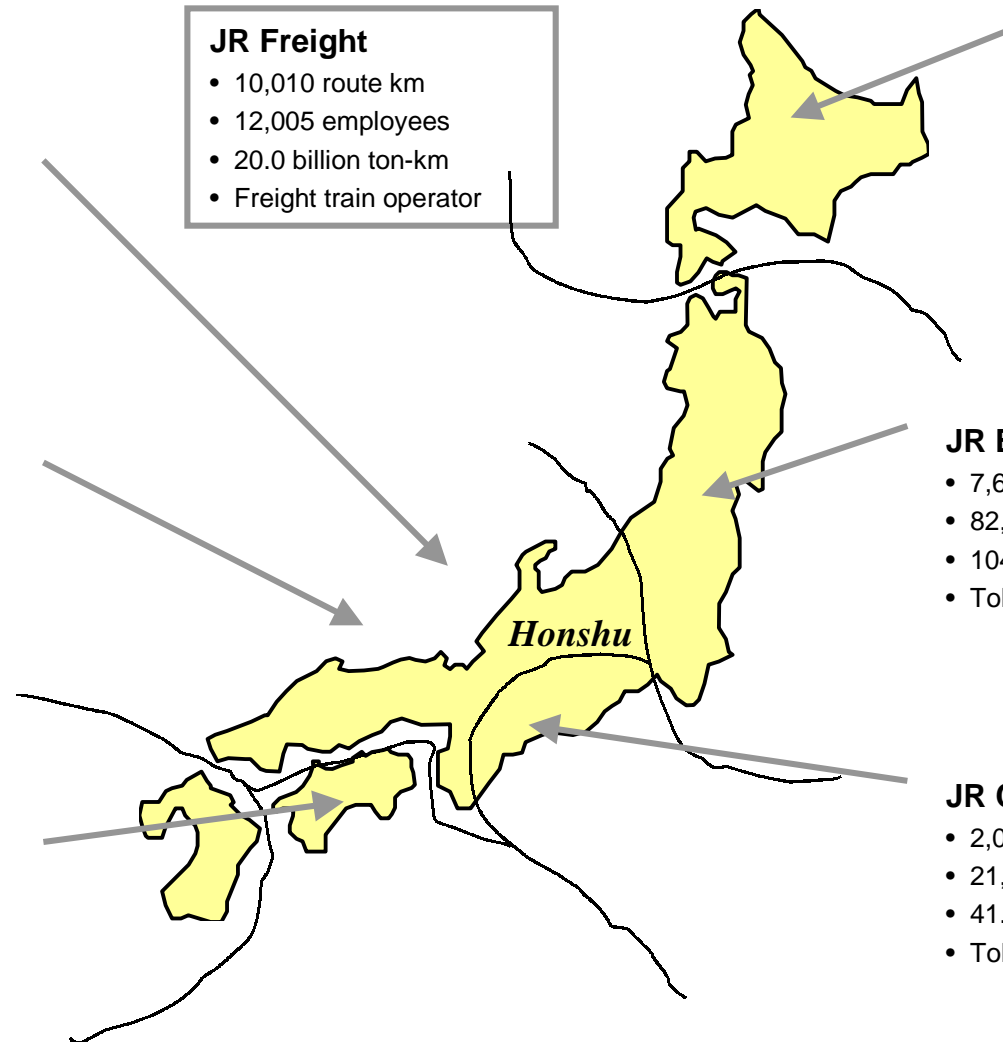
- 3,176 route km
- 12,719 employees
- 3.9 billion passenger-km
- Conventional lines only

JR East




- 7,657 route km
- 82,469 employees
- 104.5 billion passenger-km
- Tohoku and Joetsu Shinkansen

JR Central

- 2,003 route km
- 21,410 employees
- 41.1 billion passenger-km
- Tokaido Shinkansen

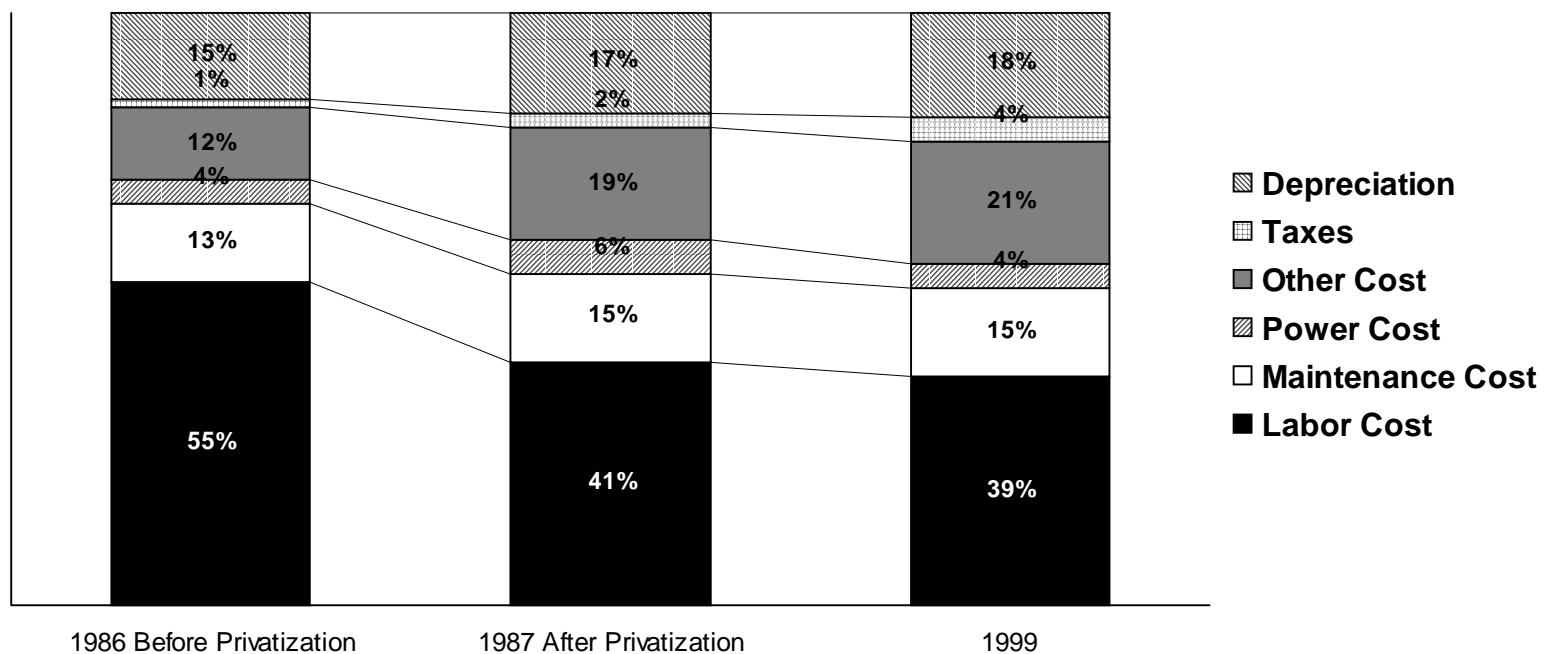


JNR's infrastructure was handed over to each regional passenger railway company except for Shinkansen infrastructure which was to be leased to JR East, JR Central and JR West.

	Passenger Service on Conventional Lines	Passenger Service on Shinkansen Lines	Freight Service
Infrastructure Owner	<ul style="list-style-type: none"> Each train operator 	<ul style="list-style-type: none"> Shinkansen Holding Corporation(SHC) Each train operator pays asset lease fee to SHC. 	<ul style="list-style-type: none"> JR Freight owns assets for its exclusive use only. JR Freight pays access fee to asset owners.
Train Operator (Rolling Stock Owner)	<ul style="list-style-type: none"> Each passenger railway company(JR Hokkaido, JR East, JR Central, JR West, JR Shikoku and JR Kyushu) 	<ul style="list-style-type: none"> JR East, JR Central and JR West in Honshu 	<ul style="list-style-type: none"> JR Freight
Maintenance (Infrastructure and Rolling Stock)	<ul style="list-style-type: none"> Each train operator 	<ul style="list-style-type: none"> Each train operator 	<ul style="list-style-type: none"> JR Freight maintains only its own property.
	 <p>JNR was divided into 6 passenger railway companies geographically.</p>	 <p>4 Shinkansen lines were to be operated by 3 companies separately.</p>	 <p>JR Freight was established as a nationwide freight service operator.</p>

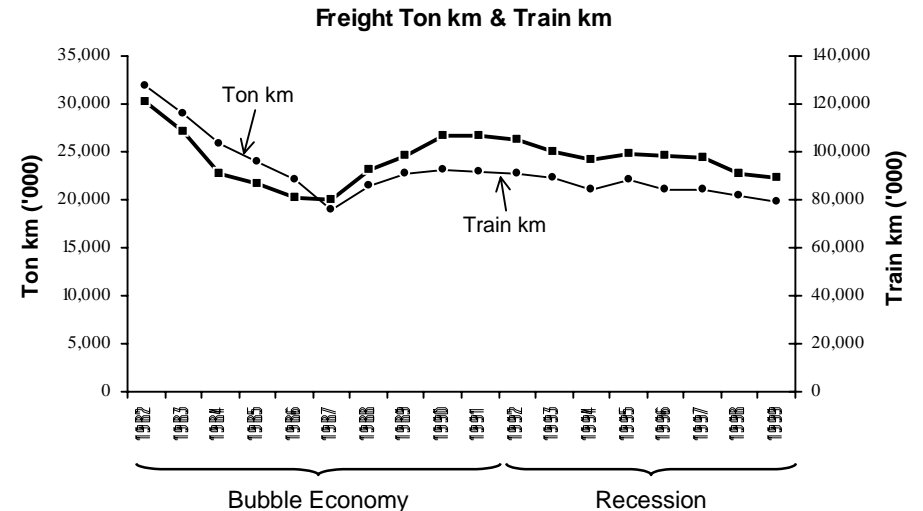
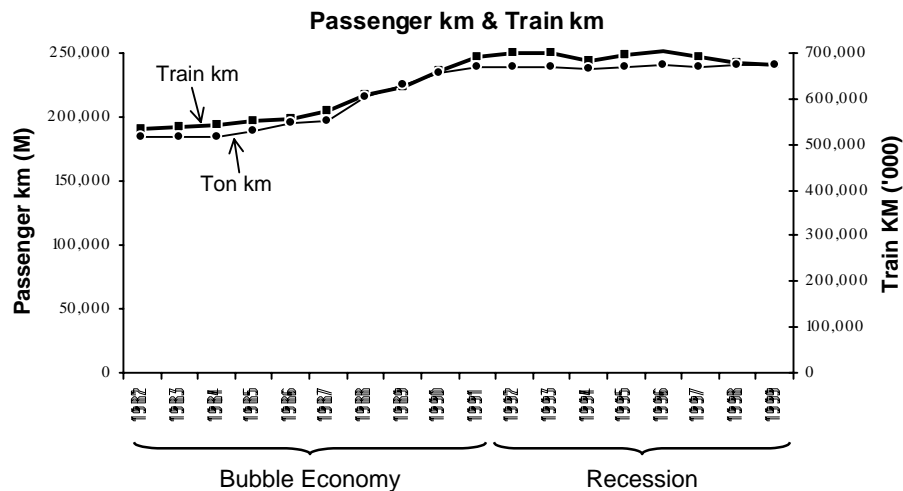
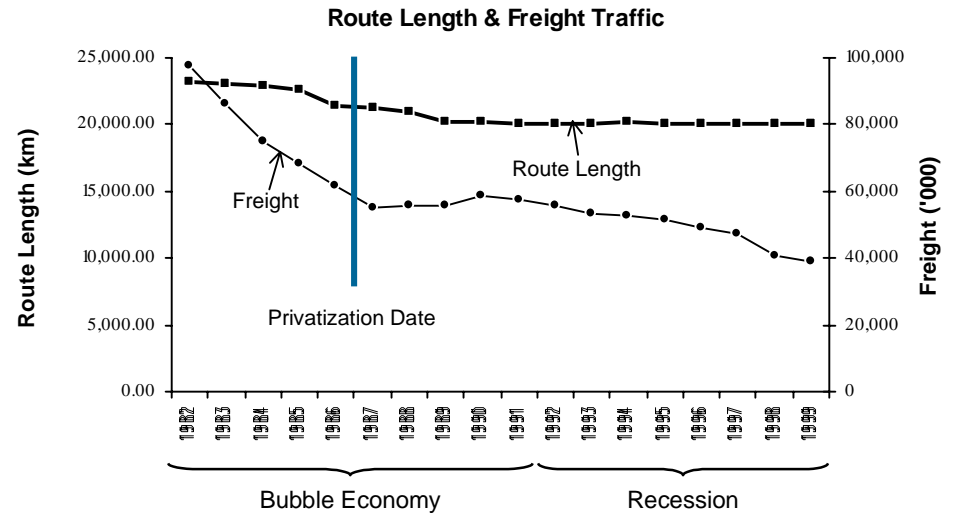
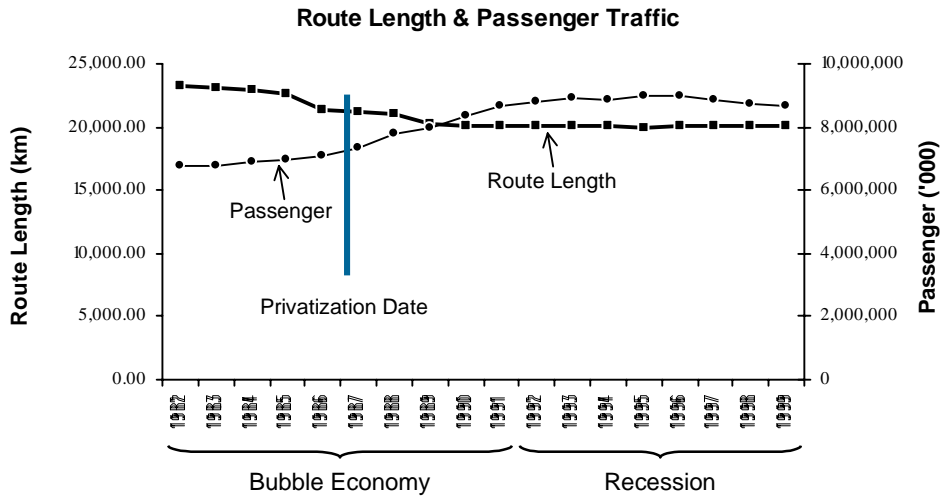
JNR decreased the ratio of labor cost in total operating cost, mostly through labor cuts.

Breakdown of Operating Cost



Japan

After privatization, the number of passengers increased significantly and freight traffic remained stable despite significant route shedding and a recessionary economy.



Source: ?.